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Publication date:
1999

Document Version
Publisher's PDF, also known as Version of record

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Distribution, density and abundance of herring (*Clupea harengus*) in the Sound (ICES Subdivision 23) from September 1993 to May 1998 in relation to the establishment of the fixed link across the Sound between Copenhagen and Malmö.

by

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ISBN: 87-88047-57-1

DFU-Rapport nr. 67-99

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1.0 SUMMARY

Background and objectives
To provide information for the evaluation of possible impacts of the construction of the Fixed Link in the Sound between Denmark and Sweden related to possible changes in distribution and migrations of herring in the Sound, the Danish Institute for Fisheries Research (DIFRES) has monitored herring occurrence and abundance in the Sound area with special emphasis on the spring spawning western Baltic herring stock. During the period autumn 1993 to spring 1998 27 hydroacoustic monitoring surveys were carried out within the present investigations.

The objectives of this investigation were to describe the horizontal and vertical distribution and density patterns of herring based on repeated monitoring in the Sound as well as to describe temporal and spatial variation in the occurrences of herring of different size groups in relation to the migration pattern of the spring spawning Rügen herring stock.

Furthermore, the objectives of this investigation were to measure biomass of herring in the Sound in order to establish reference data before the construction period, monitoring data during the construction period as well as obtain knowledge concerning herring occurrence in the Sound in relation to the design of the monitoring programs for evaluation of the environmental impact from the construction of the fixed link between Denmark and Sweden (ØSK 1995) on possible changes in distribution and migration patterns of the stock. This for a part is to evaluate herring occurrence and migration related to construction activities and to dispersion of suspended sediment fans.

The patterns in spatial and temporal occurrence found, and variation in this, of herring in the Sound are presented here and put in the context of the previously reported typical migration pattern of the Rügen herring stock. This pattern has been reported to be migration between the main spawning grounds at Griefswalder Bodden to the feeding areas, a north-westward migration extending to the Kattegat / Skagerrak / North Sea area and a eastern one extending to about 16°E in the Baltic Sea, respectively, according to Biester (1979a,b), Jönsson and Biester (1981), ICES (1983a), Otterlind (1984), Otterlind (1987) and Aro (1989) mainly based on information from tagging experiments but also from information from fishery.

In relation to the construction of the fixed Sound link a number of environmental criteria, among others with respect to herring in the Sound, shall be respected and obeyed. With respect to migration routes and distribution of herring, the Danish Ministry of Environment and the Danish Ministry of Traffic (Miljø- og Energiministeriet og Trafikministeriet, Jan. 1995) as well as the Swedish Water Rights Court in part judgement from 13 July 1995 (Vattendomstolen, 13 July 1995) have set the following criteria: Situations where sediment fans block for the passage of herring through Drogden and Flinterenden when migrating south to the spawning areas and when migrating north to the feeding areas must not arise. Monitoring and effect evaluation shall be established to ensure that the protective clauses are obeyed. The present investigation is a part of this

monitoring to provide the Danish and the Swedish authorities with information to evaluate whether the set criteria has been obeyed or violated.

Main results and conclusions

Herring abundance of 45-165.000 t during the autumn period, 5-85.000 t during the spring, and > 2000 t during the summer were found in the Sound in the period September 1993 to May 1998. These biomass ranges were estimated from 27 hydroacoustic echo integration surveys covering the central Sound with a standard set of acoustic transects. From concurrent biological sampling with scientific, multi-panel gillnets equipped with a wide range of mesh sizes and with large, pelagic trawls with fine meshed cod-ends, respectively, species composition and size and age were estimated. This combined with the acoustic data showed relatively strong 1988, 1991 and 1994 year classes occurring in the Sound from age 2 (winter-rings) in the autumn and relatively high stock abundance in the autumn periods of 1993 and 1996-97, respectively. The results suggest the Sound to be a main over-wintering area for the spring spawning Rügen herring stock (RHS) for the 2+-group. Peak herring densities were estimated in the areas around the island of Ven in the autumn period. The highest densities of herring were found in the depth range from 8-22 m below sea surface and just below or in the halocline in areas with a stratified water column as shown by concurrently sampled hydrographical (CTD) data. Herring density was statistically analysed and described by a multiplicative GLM-model in relation to year, season of year, geographical division, depth stratum, temperature range and salinity range, and furthermore analysed in relation to major flows of water through the Sound to or from the Baltic Sea. Decreasing herring abundance in late spring in the Sound was concordant with observed peaks in commercial landings and (subsequent) peak larval indices at the spawning ground of the RHS. The larger size groups of herring seem to migrate from the Sound southwards to the spawning grounds in the spring before the smaller herring size groups. The identified patterns in spatial and temporal occurrence of herring in the Sound are in agreement with previously reported migration patterns between the main spawning and feeding grounds for the RHS based on tagging investigations. This report is the first to give quantitative estimates of the occurrence of the Rügen herring stock in the central Sound, and to identify the area as the main stock over-wintering area, on the basis of repeated investigations.

The present monitoring investigations and the main results from the performed surveys as well as the analyses of the data sampled during these surveys, which are presented in this report, indicate that the protective criteria for the herring and their environment in relation to their occurrence and migration in and through the Sound has not been violated in relation to the activities during establishment of the fixed link across the Sound. This is to be seen in light of the environmental protective criteria set up by the Danish Ministry of Environment and Swedish authorities regarding herring migrations in the Sound (Miljø- og Energiministeriet og Trafikministeriet 1995; Växjö Tingsrätt, Vattendomstolen 1995). This conclusion should be seen in perspective of the high variations in the stock biomass level of the Rügen herring stock within the investigated time period, which are probably of natural origin. High variations in the herring biomass and relative densities between time periods and geographical areas have also been observed within the Sound area during the monitoring period. Whether this variation is a consequence of the

variation in the overall stock level and caused by natural variation in the stock or is caused by the dredging activities in relation to establishment of the fixed link across the Sound can not be concluded. However, there seems not to have been situations where extreme quantities of herring have concentrated in the Sound for longer time periods in relation to their southwards migration. Nor do the spawning migrations seem to have been blocked longer time periods preventing spawning migration because of the dredging activities.

Variations and uncertainties in the measurements of herring distribution and abundance
The variation in herring distribution, abundance and migration is discussed in relation to potential biological and physical factors influencing it. This includes discussion of the density patterns of herring in the Sound in relation to natural variations in the stock level and in relation to the dredging activities from the construction of the fixed link across the Sound. Furthermore, the uncertainties in the methods used and in the types of sampling, measurement, and collection of data performed are described and discussed.

2.0 INTRODUCTION

Objectives.
The objectives of this investigation were to describe the horizontal and vertical distribution and density patterns of herring based on repeated monitoring in the Sound as well as to describe temporal and spatial variation in the occurrences of herring in the Sound of different size groups in relation to the known migration pattern of the spring spawning Rügen herring stock.

Furthermore, the objectives of this investigation were to measure the biomass of herring in the Sound in order to establish reference data before the construction period, obtain monitoring data during the construction period as well as to obtain knowledge concerning herring occurrence in the Sound in relation to the design of the monitoring programs for evaluation of the environmental impact from the construction of the fixed link between Denmark and Sweden (ØSK 1995) on possible changes in distribution and migration patterns of the stock. This for a part is to evaluate herring occurrence and migration related to construction activities and to dispersion of suspended sediment fans.

Background.
The Sound (ICES Subdivision 23) is a transition area for several migrating fish stocks such as herring (*Clupea harengus*), garfish (*Belone belone*), lumpsucker (*Cyclopterus lumpus*), mackerel (*Scomber scombrus*), and to some extent cod (*Gadus morhua*). Results on early, comprehensive tagging experiments (Biester 1979a,b; Jönsson and Biester 1981; ICES 1983a; Otterlind 1984; Otterlind 1987; Aro 1989) showed that the Sound is a major over-wintering area and a major migration route for the presently important spring spawning western Baltic (Rügen) herring stock. Based on the results from the international tagging experiments Biester (1979a,b) summarises that the major part of the herring occurring in the Sound in autumn-winter is from the Rügen spring spawning stock (more than 75 % probably) and that recoveries from tagging experiments from the 1950ies and 1970ies are practically the same indicating stability in the migration pattern of the Rügen herring. Otterlind (1987) finds no indication of significant local spawning in the Sound since around 1980 and he finds no local, more or less permanent, population belonging to the Sound. No certain spawning grounds are known for the area from Helsingør-Helsingborg to Dragør-Malmö (Otterlind 1987). Otterlind (1987) concludes from his investigations that the dominant herring stock component in the Sound is the spring spawning Rügen herring stock over-wintering here. This is especially the case for the mature herring (2+-groups).

However, no detailed, quantitative investigations of occurrence and abundance of the over-wintering Rügen herring, and the passage of migrating herring through the Sound, have previously been carried out repeatedly over an extended time period in order to quantitatively estimate the importance of the Sound as an over-wintering area and migration route for the herring. Before the present studies only qualitative, indicative and anecdotal information existed, based mainly on information from the tagging experiments and also on information from fishery through historical times.

Previous studies showed a typical migration pattern of the Rügen herring stock between the main spawning grounds at Griefswalder Bodden around the island of Rügen to the feeding areas, a north-westward migration extending to the Kattegat / Skagerrak / North Sea area and a eastern one extending to about 16°E in the Baltic Sea east of Bornholm and the western part of Hanö Bay, respectively. Migration as easterly as to the Gdansk Bay has been observed in some years. A major part of the western Baltic herring stock has feeding grounds in the Skagerrak-Kattegat and North Sea area where the 2 year old (for a part including the first spawners) and older herring are located during summer. In July/August, they migrate southwards through Kattegat. During the period (late) August to March, the herring are found in high concentrations in the Sound. Both the Sound and the Belt Sea is over-wintering localities for both the Rügen (and Kattegat) spring spawning herring, but the tagging experiments indicate that the Sound is the major migration route back from the northern feeding grounds. Spawning at Griefswalder Bodden around the island of Rügen and surrounding areas (shallow, coastal waters from the Belts to the region east of Rügen in the Arkona Basin) in the western Baltic takes place during March-May, sometimes June. Main spawning occurs here where the conditions for spawning and production of herring larvae are suitable with respect to sheltered location and relatively stable environment with good access to food. After spawning a major part of the herring migrates back to the Kattegat-Skagerrak area partly through the Sound in late spring and early in the summer. The exact proportion of the stock which migrates northwards after spawning is unknown. Tagging experiments show that this northwards migration takes place both through the Sound and through the Belt Sea. Mature over-wintering herring and some immature 2-group will be located in the Sound with high abundance from the late summer period and first autumn period probably waiting for the right conditions and moment to leave the area heading towards the spawning grounds during winter and spring. (Biester 1979a,b; Jönsson and Biester 1981; Kühlmorgen-Hille 1983; ICES 1983a; Otterlind 1984; Otterlind 1987; Biester 1989; Scabell and Jönsson 1989; Müller and Klenz 1994; Nielsen 1996; Nielsen *et al.* 1998). However, the historical qualitative investigations are relatively old and may not reflect the present stock situation and migration patterns. The western Baltic spring spawning herring is a significant resource for the Danish, German, Norwegian and Swedish commercial fisheries in the western Baltic area (including the Sound and the Belts), in the Kattegat-Skagerrak area and to a less extent in the North Sea (ICES, 1998).

The international hydroacoustic surveys for stock assessment purposes of herring (ICES, 1998) cover the total Rügen spring spawning stock in only a part of its distribution area both in the summer and the autumn surveys (ICES 1984a,b). The international herring survey in the North Sea and in the Skagerrak-Kattegat area (ICES Subdivisions IV and IIIa) during summer does not cover the part of the stock occurring in the western and eastern Baltic Sea at that time of the year (e.g. the juveniles) (ICES 1984a,b). Investigations of parasitic infestation with larvae of *Anisakis* (Nematoda), which are used as biological tags of the spring spawning Rügen herring stock, indicate that the juveniles and some recruit spawners of herring (0-, 1-, and partly 2-ringers) do not migrate to the feeding grounds together with the older and mature groups but stay over summer in the western Baltic Sea area and in eastern Baltic Sea (Kühlmorgen-Hille 1983; ICES 1983a). Also the tagging experiments showed that a part of the Rügen herring stock seem to stay

all year round in the Baltic Sea area (Biester 1979a,b). Consequently, these herring are probably not covered in the summer survey. The stock component which performs feeding migrations to the eastern Baltic Sea during summer (Biester 1979; Otterlind 1984; Aro 1989) is not covered here. In the autumn survey covering the Baltic Sea including the Sound and the Belt Sea area it is likely that a part of the stock, which has not yet returned from the feedings ground in ICES Subdivision IIIa, is not covered by the survey (ICES 1984a,b). Partly for that reason no analytical assessment is made on the stock (ICES 1998). Also the hydroacoustic surveys presented in this paper only cover a part of the spring spawning Rügen herring stock in the Sound in a rather limited geographical area compared to the total stock distribution area.

In literature there is expressed a need for quantifying the occurrence of herring in the Sound over the year in different years and in different areas of the Sound to throw light upon the exchange between the southwestern Baltic and Kattegat / Skagerrak in quantitative terms (ICES 1983a; Otterlind 1984). Otterlind (1984) expressed, furthermore, a need for investigations on the variations in the above between years. This report provides new information within that area.

In relation to the construction of the fixed Sound link a number of environmental criteria, among others with respect to herring in the Sound, shall be respected and obeyed. With respect to migration routes and distribution of herring, the Danish environmental authorities (Miljø- og Energiministeriet og Trafikministeriet, Jan. 1995) and the Swedish authorities (Vattendomstolen, 13 July 1995) have set the following criteria: Situations where sediment fans block for the passage of herring through Drogden and Flinterenden when migrating south to the spawning areas and when migrating north to the feeding areas must not arise. Monitoring and effect evaluation shall be established to ensure that the protective clauses are obeyed. The monitoring will be under the responsibility of Danish and Swedish authorities and will be performed as a combination of acoustic monitoring and fishing investigation covering the whole Sound area. The observations from this monitoring shall be related to continuos measurements and modelling of distribution, spreading and concentration of suspended sediment. The herring monitoring programme will not be designed as a feed-back monitoring programme and will as such not function as an control mechanism for the excavation activities. The present investigation is a part of this monitoring to provide the Danish and the Swedish authorities with information to evaluate whether the set criteria has been obeyed or violated.

Present investigations.
To provide information for the evaluation of possible impacts of the construction of the Sound Bridge between Denmark and Sweden related to possible changes in distribution and migrations of herring in the Sound, the Danish Institute for Fisheries Research (DIFRES) has monitored herring occurrence and abundance in the central Sound with special emphasis on the spring spawning western Baltic herring stock. During the period autumn 1993 to spring 1998 27 hydroacoustic monitoring surveys were carried out within the present investigations covering all seasons of the year. The identified patterns in spatial and temporal occurrence and variation in this of herring in the Sound over a 5 year period are presented and put in the context of the previously reported typical migration

pattern of the Rügen herring stock.

Previous reports made by DIFRES in relation to this monitoring are Nielsen *et al.* (1998), Poulsen *et al.* (1998), Nielsen (1996), Nielsen and Stæhr (1996), and Pedersen and Stæhr (1994).

3.0 MATERIALS AND METHODS

Surveys performed.
During the period September 1993 to May 1998, 27 hydroacoustic and 23 parallel gillnet surveys as well as 8 parallel trawl surveys were carried out in the Sound (ICES Subdivision 23). An overview of survey activities is given in Table 1.

Study and survey area.
The survey area covers both Danish and Swedish waters in the Sound from Helsingoer in the north to Drogden in the south, i.e. the central Sound. The survey area has been divided into 13 sub-areas (geographical strata) in order to describe small-scale geographical variations in herring occurrence within the Sound area (Fig. 1). Coverage of the hydroacoustic echo integration within the survey area is shown in Figure 2. Each geographical stratum is approximately 2.5 nm wide in the north-south-going direction and the area in nautical square miles of each stratum is shown in Figure 1 as measured from official Danish nautical navigation maps (The National Survey and Cadastre, Maps Int1331 & Int1332).

Collection of hydroacoustic echo integration data.
Hydroacoustic echo integration was on each survey performed through standard transects (Fig. 2). A schematic presentation of hydroacoustic survey activities with reference to survey index, survey period and performed investigations / activities during each survey are given in Table 1. The survey period refers to the acoustic integration period. The concurrent gillnet fishing and trawl fishery is indicated as well as the concurrent hydrographical data sampling. The sampling of echo integration data has been performed with a mobile, scientific SIMRAD EY-200 38 kHz single beam echosounder system mounted in the small research vessel R/V Havfisken, DIFRES, during all acoustic surveys except for the May and July 1995 surveys where echo integration was performed with a SIMRAD EK-400 38 kHz single beam system on board R/V Dana, DIFRES. From both research vessels echo integration was carried out with a towed body (paravane) mounted transducer. Towing depth was typically 2 m below sea surface which was as close to the surface as possible taking turbulence from currents and wind into account in order to keep the towed body run stable and in order to avoid disturbing air bubbles caused by breaking the waves. The 3 m layer below the transducer was not integrated as this is within the near beam field of the transducer, i.e. no hydroacoustic integration is available in the 0-5 m depth layer in the whole study area. The operating frequency on all surveys was 38 kHz, and basic settings of high power, 1 ms pulse duration, and 1 kHz receiver bandwidth were used. The schematic diagram in Figure 3 shows the set-up of the used hydro-acoustic echo integration system on board R/V Havfisken. The echosounder systems were calibrated using the standard target (copper sphere) method (Foote *et al.* 1986; Degnbol 1988; Degnbol *et al.* 1990). The most relevant technical data, settings and calibration parameters for both acoustic systems used are given in Table 2. The echo integration systems were connected to GPS navigation units from which synchronous position data were obtained. The acoustic integration was only performed during night (darkness). The standard hydroacoustic survey zig-zag-transect pattern with its way-points, shown in Figure 2, covers each stratum on both the Danish and the Swedish side

of the Sound. The Drogden Channel (western part of the strata G10-G13) west of the island of Saltholm was not covered because of the dense ship traffic here which made acoustic integration as well as fishery impossible here (Fig. 2). However, the Drogden Channel area was included in this investigation as the fish distribution and density pattern in the western part of each relevant strata covering the Drogden Channel was assumed to be identical with that found in the eastern part of each stratum which was covered by the standard hydroacoustic transect. This assumption is partly based on repeated pilot investigations where acoustic measurements were made during steaming through the Drogden Channel area during several surveys. These pilot investigations did not show different patterns in fish occurrence in the western part (Drogden Channel area) compared to the eastern part of each of the relevant geographical strata (G10-G13). The assumption is also based on the similarity in the hydrographical features of the waters on the western and eastern side of the island of Saltholm because both the western and eastern part of the relevant strata are shallow water areas with similar current conditions. Each transect was integrated once for each acoustic integration survey, but the actual integration cruise route for R/V Havfisken at each integration night and monthly survey was chosen according to wind and current conditions. Cruise speed was typically 3-6 knots dependent on wind and current. Acoustic integration data were stored for approximately each 0.5 nautical mile, analysed and judged with the Echo-Ann analyser system (Degnbol *et al.* 1990). Contributions from plankton, air bubbles (from breaking wind waves or propeller wakes from passing vessels) bottom echoes and (other) disturbances were removed during the judging procedure. False bottom detection on dense fish schools / aggregations (typically herring) was compensated for during judging. When fish echoes were mixed with plankton echoes the contribution from plankton was estimated by comparing the integration values with values obtained on other close sampling positions with similar isolated plankton recordings not containing fish. Horizontal and vertical contour plots of herring density and biomass in the Sound, respectively, were made for each survey (Figs. 4-57) based on the hydroacoustic data when allocated to the raised catch data obtained from the biological data sampling according to the methods described in details below.

Collection of biological data.
The biological data sampling was performed parallel to the hydroacoustic data sampling during each survey period with scientific, multi-panel gillnets equipped with a broad spectrum of mesh sizes and was complemented with sampling from large research vessels with large pelagic trawls having fine meshed cod-ends. A schematic presentation of the survey activities with reference to survey index is presented in Table 1.

The gillnet fishing surveys were performed with experimental (scientific) gill nets (Tab. 1). This fishery was mainly directed towards herring of the size groups covering the 2+-group. All nets were made of mono-filament polyamid. For further details on the gillnets see Poulsen *et al.* (1998). Each setting comprise 7-9 nets (panels) with mesh sizes 18.5 mm, 21 mm, 26 mm, 27 mm, 28 mm, 29 mm, and 34 mm directed towards clupeoids, and furthermore 46.0 mm and 55.0 mm or 60.0 mm directed towards gadoids. The panels were placed with a distance of 5 m between them. Usually fishing was performed with a standard set of 8 nets (panels) with mesh size 18.5, 21, 26, 27, 28, 29, 34 and 55 mm,

respectively. A schematic set-up of the experimental gill net design is shown in Figure 3. For illustrative reasons Figure 3 shows a gill net set-up with only 5 panels out of the typically 8 panels included in a standard set. Technical measures including the net area of the gill nets used during surveys are given in Table 3. Typically a standard set of 8 nets had a length of 550 m and a height of 5.1 m. However, the fishing area of the used gillnets, which is a passive fishing gear, is much larger taking the area of movement for the caught fish into account. Dependent on time, weather and water currents the fishing stations were stratified to cover both bottom and pelagic water layers as well as all geographical strata during each survey on both the Danish and the Swedish side of the Sound within each geographical stratum. It was attempted to make a set on both Danish and Swedish side in each geographical stratum during each survey. If that was not possible it was attempted to make at least one set in each stratum and then covering each national side in every second geographical stratum. An overview of the fishing operations and the catch in the gillnet sets for all gillnet surveys is given in Table 1 and Appendix 1. Both the bottom and pelagic gillnet settings were carried out at localities where it was judged that there was highest probability of catching herring representatively. The Drogden channel was not covered because of ship traffic problems. However, the distribution of fish in the part covering the Drogden channel of each of the relevant strata, which include the Drogden channel, was assumed not to be different from the distribution of fish in the rest of each relevant stratum outside the Drogden channel according to depth. Based on that assumption the Drogden Channel was included in this investigation. (See also the description above in relation to coverage of the hydroacoustic integration). Fishery was performed during night concurrently with hydroacoustic integration. Until October 1994 fishing was performed from a chartered commercial fishing vessel (F/V POSEIDON, No. K52) and on all following surveys from R/V Havkatten, DIFRES, during the period November 1994 to May 1998. The number of sets from R/V Havkatten was totally 206. Both vessels used the same gear. During the May 1995 acoustic integration survey (S0595) with R/V Dana no concurrent biological sampling was performed but biological data from the April 1995 survey was used to evaluate the hydroacoustic data (see below). During the R/V Dana survey S0695 in July 1995 trawl sampling at 3 stations in the northern, central and southern Sound area, respectively, was performed with the large, fine meshed (16 mm in cod-end) EXPO trawl covering the whole water column. Details of the fishing activities in relation to hydroacoustic echo integration is presented in Table 1 and in Appendix 1. For each fishing operation during all surveys geographical stratum, exact fishing positions (start/end), fishing depth and depth layer, as well as fishing time and duration was recorded. Furthermore, details regarding fishing vessel, weather (wind direction and speed), water current speed and cloud cover were recorded.

Catch in number and weight was determined to fish species for each mesh size in all settings during all fishing surveys. The standard biological sampling from the fishery included length measurements (total length) of all caught fish by species per mesh size, and total weight (in grams) of catch by species per mesh size, and, consequently, information on total catch in weight by species pooled for all mesh sizes on each fishing station, i.e. totally for each set. Clupeoids (herring and sprat) were length estimated to semi-centimetre (scm) below and all other species to centimetre (cm) below. (Fig. 58). A

total number of more than 30000 herring was caught in the 206 gillnet settings from R/V Havkatten. By-catch of species other than herring consisted mainly of whiting, cod, and garfish.

Extended individual sampling of herring was performed in the southern, central, and northern part of the Sound, respectively, on selected fishing surveys covering all seasons of the year (e.g. on every second fishing survey). For each part of the Sound 5 herring specimens per semi-centimetre (scm) group were collected. These fish samples were analysed in the laboratory and data on individual length, weight, fat content (muscle tissue), age (otoliths), sex (gonads), sexual maturity (gonads) and spawning season (otoliths) were recorded. During some surveys also the individual number of vertebrae of the herring was recorded. From the raised (see methods below) biological data sampling species distribution and herring stock composition were analysed with respect to length and age distribution and length weight relationship. Data on mean length per winter-ring (age) group and mean weight per length group presented in Figure 59-60 originate from the sampling of the gillnet fishery.

Collection of hydrographical CTD-data.
Sampling of hydrographical CTD data was performed with a mobile SEACAT SBE19-03 CTD from R/V Havfisken and with a SEABIRD SBE911+ CTD from R/V Dana in order to obtain profiles of Conductivity, Temperature, and Depth on all surveys from October 1994 to May 1998 except for the May and October 1995 surveys, respectively (Tab. 1). The hydrographical sampling comprised vertical profiles of: pressure (decibars; giving depth), temperature (°C), conductivity (µS/cm), salinity (‰), oxygen concentration (ml/l), sampling time (seconds) and UTC time and date. The recorded profiles covered the vertical water column from 0.5 m below sea surface to close to the sea bottom. It was attempted to distribute the profiles evenly to represent all geographical strata and depth strata during the different surveys. Furthermore, it was attempted to take profiles in areas with, respectively, high, intermediate, and low density of herring. In most cases 10-13 profiles at various positions within the investigated area were acquired during each survey in order to represent the hydrographical conditions in the 13 geographical strata.

On R/V Dana the CTD-data were stored directly on-line to a PC-disc at a rate of 24 samples per second, while on R/V Havfisken the CTD-data were recorded internally at a rate of two records a second and later uploaded to a PC. At R/V Havfisken the CTD-instrument was lowered over the side with a simple hydraulic winch at a rate that gives from 4 - 8 records per meter water depth. Memory capacity allowed for about two hours of total recording time here. The uploaded data from both types of CTD-instruments were processed with the Seasoft software package from the Seabird company in order to produce corrected data of temperature, salinity, oxygen concentration versus depth. The SEACAT SBE19-03 was only calibrated 2 - 3 times a year, but since the space on R/V Havfisken did not allow for the processing of oxygen samples the oxygen data are not considered reliable from this CTD and can, consequently, be used only to indicate the order of magnitude of oxygen concentration change with depth at each station.

A more detailed comparative analysis was performed regarding the influence of the exact location of the haloclines and thermoclines in the water column on the distinct patterns in the relative vertical herring distribution (Fig. 62). In these analyses the hydrographical features obtained from CTD profiles were compared to overlapping measurements of acoustic integration values (Sa-values) per 1 m depth stratum down through the water column at selected typical localities.

Collection of data on water currents.
Data on water currents (current profiles) has been collected (see acknowledgements) in the Sound at half hourly intervals in different water depths at three different locations: Drogden, Flinterenden, and Ndr. Røse, respectively (Figs. 63-65). Data from the survey period September 1993 to June 1998 has been used, however, the length of the time series is different for the different locations which appear from the figures.

The Royal Danish Administration for Navigation and Hydrography runs an Aanderaa DCM12 acoustic current profiler placed at the bottom at about 5 m depth at 55°32.15N 12°42.75E near the light house Drogden. Data sampling from this instrument covers depth intervals around 1.5m, 2.8m and 4.1m during the time period July 1 1995 to June 30 1998 almost without interruptions.

The Danish Hydraulic Institute runs two RDI ADCP's (Acoustic Doppler Current Profiler) for ØSK ("Øresundskonsortiet"). One is at 10 m depth at the position 55°35.05N 12°49.93E near Flinten SW. Data sampling covers 16 0.5m layers from 1.6 m above the bottom up to the surface for the period October 1993 to December 1997 with only a few short interruptions except for the period April-June 1995. The other is at 11 m depth at the position 55°38.29N 12°41.61E near the light house Ndr. Røse. Data sampling covers 17 0.5m layers from 1.6 m above the bottom up to the surface for the period September 1993 to June 1998 with only a few short interruptions.

The Drogden profiler is located immediately south of the investigation area in the sill area of the Baltic-Sound-Kattegat estuary system. The Flinterenden and Nrd. Røse profilers are located just north of the southern border of the investigation area. The two latter covers the Sound channels on both sides of Saltholm.

At each position the currents have been converted to components along and across a selected direction and then averaged over 24 hours. From the averaged time series a cumulative flow along and across the selected direction has been calculated for periods from July 1 in one year to June 30 the next year. The directions were selected to give a near zero cumulative cross component, which was 42 degrees N at Drogden and Flinten and appr. 0 degrees at Ndr Røse. At Drogden and Flinten the direction of the minimum 6-hour-average cross component amplitude coincided closely with the selected direction, while at Ndr Røse the direction of the smallest amplitude of the 6-hour-average cross component was about -10 to -20 degrees N indicating a different flow pattern at this position. The data sampled in half-meter layers for the two RDI ADCP's has been pooled into different larger depth layers presented in Figures 64-65.

Figures 63-65 show plots of the cumulative flow for the different periods along the selected directions converted to kilometers of water passing the instrument since the start of each period. Uphill portions of the curves represent flow from the Baltic and downhill portions flow towards the Baltic.

Since the water is weakly stratified according to concurrent temperature and salinity measurements (not presented here) at the same positions during most outflow occasions and during the main part of the inflow occasions, we believe that the current at these points is a fair representation of the relative magnitude and the direction (to or from the Baltic Sea) of the flow in the surface layers of the Sound area.

Raising of gillnet catches to estimated species and length distributions in the population.
Because the gillnet sampling was directed towards catch of the 2+-groups herring (the spring spawning Rügen herring component in the Sound) this catch does not represent full species and size distributions occurring in the sea because of gear selection effects (see below). For example, the gillnet catches did not cover the smallest size groups of herring or other species in the Sound representatively. In order to compensate for this gear selection effect the estimated, normalised catch for all species and size groups, which were used to calculate herring abundance, was obtained by raising the gillnet catches using data from overlapping trawl catches.

A gillnet survey design was made where the choice of gear and the fishery was directed towards catch of the herring of the 2+-group. Furthermore, the gillnet surveys were designed in order to cover as large a geographical part and as many depth strata as possible of the Sound area. Using the experimental gillnet fishing method from a small research vessel it was possible to cover a wider geographical area (range of strata) and more depth strata including the shallow water areas of the Sound than was possible with pelagic trawl fishing operated from a larger research vessel which has enough power to obtain a trawl speed which is sufficient for catching herring (clupeoids).

Each autumn (October) during the survey period from autumn 1993 to spring 1998 the ICES international Baltic hydroacoustic survey with R/V Solea covering the western Baltic Sea (ICES Subdivision 22-24) was performed covering 3-4 trawl stations in the Sound (ICES Subdivision 23). Trawling was performed with the large pelagic Octopus-trawl in 1995-1997 which is modified from the large pelagic "Blacksprutte"-trawl used in 1993-1995 both having small meshed cod-end (ICES 1998). The trawl fishery covered the whole water column at the trawl stations. Trawl stations and gillnet fishery stations which were overlapping in time and space (within the same geographical stratum) were selected. Overlapping stations were selected both for the northern part of the Sound covering the geographical strata G01-G05 and for the southern part of the Sound covering the geographical strata G6-G13. For these overlapping stations the gillnet catches were raised (with respect to species and size distributions) with the trawl catches assuming that the trawl catches were representative for the species and size distributions occurring in the sea during that time and in that particular geographical stratum. This was done for the most important pelagic and semi-pelagic species in the Sound (herring, cod, whiting (*Merlangius merlangus*), and sprat (*Sprattus sprattus*)) where correction factors

based on number per species and number per length group were estimated for the overlapping fisheries. Accordingly, all gillnet surveys within that autumn and the following spring period for each separate year were raised by the obtained correction factors. Trawl catches standardised to half an hour fishery were used in the raising. By using this method the specific species and size distributions found for each geographical stratum and each month (survey) were incorporated and raised by a correction factor to be used in the biomass estimation based on the comprehensive coverage in time and space of the gillnet catches. Thus, the estimates still reflect the temporal and geographical differences in species and size distribution in the Sound. Because of insufficient gillnet catches in July 1995 (survey S0695) and in the spring 1998 (surveys S0398 and S0598) trawl catches concurrent with the hydroacoustic echo integration were used directly in order to calculate species and size distributions to be assigned to the hydroacoustic energy data (Sa data) here. Catches from an EXPO-trawl with small meshed cod-end operated from R/V Dana were used in July 1995, while for the spring 1998 surveys trawl catches with a GOV-trawl with small meshed cod-end operated from R/V Argos (S) in (February -) March 1998 (ICES Baltic International Trawl Survey) were used, which covered both the northern and southern part of the Sound during these periods.

Herring length distributions in the Sound were estimated based on the estimated (raised) catch data (see above) and, furthermore, the herring length distributions for selected months in both the autumn and the spring period of each year 1993-1998 are presented in Figure 58. The length distributions are in this presentation pooled for all geographical strata (G1-G13) in the Sound.

Estimating fish abundance from combined acoustic and fishery data.
For each stratum acoustic mean target strength (mean TS) was estimated for each species or category of species and each species length group by using TS - length relations for the most important fish species occurring in the Sound by fish biomass (herring, whiting, cod, and sprat). The target strength is species and size dependent, and TS is mainly determined by factors as target swim bladder size, target swim bladder directivity (tilt angles), target fat content and target behaviour. The following empirical standard TS algorithms were used (ICES 1992):

Clupeoids:	$TS = 20 \log_{10} L - 71.2$	(ICES 1983b).
Gadoids:	$TS = 20 \log_{10} L - 67.5$	(ICES 1984c).

An overall mean TS for each geographical stratum was then estimated according to species and size distributions from the biological samplings divided into stratum. The TS contributions from each species and species length group were weighted in the proportion of their respective occurrences in the gillnet and trawl catches during the parallel (in time and space) biological sampling from the research fishery (see below). (In the equations below the values for TS and Sa are expressed in a linear form instead of in a logarithmic form).

The mean area back scattering strength (Sa) for each geographical stratum was estimated. Mean Sa per stratum:

$$\bar{Sa}\,(\text{stratum}) = \sum_{i=1}^{j} Sa_j / j$$

where j = number of logs per geographical stratum

The total number of each fish species and fish species length group in each geographical stratum was then estimated by calculating the values of mean Sa divided by mean TS. Total number of fish per stratum:

N = (Mean Sa / Mean TS)* stratum area

The number of each fish species and fish species length group was then assumed to be present in proportion to their contribution to the total raised catch (see below) obtained from the biological samplings. Allocation to length group for each species was assumed to be in accordance with the length distribution for each species in the biological samplings. (See also under biological sampling). Allocation of fishing stations within the geographical strata was based on a spatial and temporal representative (and covering) fishery related to the acoustic integration activities (see below).

Figures 4-57 presents contour plots of the herring distribution and density patterns for each survey period. Horizontal density patterns and the vertical abundance, respectively, are shown. The contour plots is based on the kriging method. The contour plots of the horizontal density patterns are made from data based on Sa-values calculated for each log where one log represents 6 minutes of hydroacoustic sampling which corresponds to a distance of around 0.5 nautical mile when sailing with a speed of approximately 5 knots. Sa is calculated for each log by summing the Sa values for all pings within the log and then dividing by the total number of pings within the log. Species and size distributions and mean TS calculations on geographical stratum level is then assigned to all the log-based Sa-values located within a given geographical stratum. The density of fish per log per species given in number of fish per square nautical mile is then calculated as:

$$N / Nm^2 = Sa_{log} / \text{mean } TS_{stratum} * \text{species fraction}_{stratum}$$

The contour plot of the number of herring per depth stratum is based on data calculated from mean Sa per depth stratum per geographical stratum. Species and size composition is assumed to be identical for all depth strata within a given geographical stratum and, consequently, the same mean TS for all depth strata in the geographical stratum is used here. The total number of fish per stratum and depth stratum is calculated as:

$$N_{stratum,depth\ stratum} = \text{mean } Sa_{stratum,\ depth\ stratum} / \text{mean } TS_{stratum} * \text{area}_{stratum,\ depth}$$

This number can then be split into species groups using the species fraction per stratum.

Estimating herring abundance per length group and identification of important year classes.

Abundance indices of herring length groups were calculated from the combined acoustic integration values according to stock composition data from biological sampling (raised catch data) using length dependant target strength values from literature estimates (Fig. 58). Mean weight per length group was calculated based on the experimental gillnet catches (Fig. 60) and pooled for each autumn and spring period for each year for the total Sound area. The length-weight relationships were calculated from linear regressions of log transformed length data versus weight estimates (Tab. 4). These length-weight-regressions have been used in the calculation of the biomass of herring (Table 1) by inserting the estimated (raised) number of herring per length group, i.e. the abundance per length group, into these length-weight relationships. Furthermore, the mean weight at length has been used to identify important year classes of herring in the Sound from the estimated (raised) length distribution in Figure 58 by means of setting these data in relation to mean weight at age from all of ICES Subdivisions 22-24 obtained from the trawl catches in the international hydroacoustic survey in October performed with R/V Solea each year in the survey period from 1993-1998 (ICES 1998).

Mean length versus number of winter-rings was calculated based on the present biological sampling from the experimental gillnet catches (Fig. 59) where data has been pooled for the autumn and the spring period, respectively, for each year for the total Sound area (geographical stratum G01-G13). As the relation is based only on catch data from the size selective gillnets these data can not be used for determination of the strong year classes in the estimated length distributions, i.e. it can not be used to estimate the number per age group in the population.

Comparison of estimated herring abundance with size of landings from fishery.

Herring landings from the German commercial fishery at the spawning grounds (at Greifswalder Bodden) for the spring spawning Rügen herring stock in the spring period based on the official German catch statistics (Rechlin,O. and Gröshler,T. pers. Comm., Institute für Ostseefisherei, Rostock, Germany) are shown in Figure 61.

Statistical analysis of herring density data.

Density patterns of herring in the Sound were tested by a GLM (Generalized Linear Model) ANOVA using a multiplicative model. The multiplicative model was set up assuming that the systematic component is multiplicative and that the errors are normally distributed and having equal variances. The GLM ANOVA was used as this procedure can handle unbalanced data, i.e. where the number of observations vary by cells. Generalized linear models procedure from the SAS statistical computer package vers. 6.12 (SAS 1990; 1991b) was used to perform a parametric ANOVA on herring density data (dependent variable) to test the difference in mean density between different categories and to identify significant effects (independent variables) of density of cod.

The equation for the full (unreduced) multiplicative model is the following:

$$N / nm^2 = Y + SY + GS + DS + \Delta S + \Delta T + Y*SY + Y*GS + Y*DS + Y*\Delta S + Y*\Delta T + SY*GS + SY*DS + SY*\Delta S + SY*\Delta T + GS*DS + GS*\Delta S + GS*\Delta T + DS*\Delta S + DS*\Delta T + \varepsilon$$

where

Y = Year (1993, 1994, 1995, 1996, 1997, 1998)
SY = Season of Year (Autumn, Spring)
GS = Geographical Stratum (G01 – G13)
DS = Depth Stratum
1: 5-7.5 m,
2: 7.5-22.5 m,
3: 22.5-32.5 m,
4: 32.5 m <

ΔS = Salinity range, delta S, numerical difference between minimum salinity and maximum salinity in order to investigate the effect of the location of the halocline. (Ranges: $\Delta S<2.0 \Rightarrow \Delta S=1$; $2.0\leq\Delta S<10.0 \Rightarrow \Delta S=2$; $10.0\leq\Delta S<20.0 \Rightarrow \Delta S=3$; $20.0\geq\Delta S \Rightarrow \Delta S=4$).

ΔT = Temperature range, delta T, numerical difference between min. temperature and max. temperature in order to investigate the effect of the location of the thermocline. (Ranges: $\Delta T<2.0 \Rightarrow \Delta T=1$; $2.0\leq\Delta T<10.0 \Rightarrow \Delta T=2$; $10.0\geq\Delta T \Rightarrow \Delta T=3$).

ε = epsilon, model error term (model residuals)
* represent interaction terms.

All first order interactions in the full models were tested where empty cells did not occur, i.e. where observations are available. The resulting reduced multiplicative model presented in the results section was achieved by successive reducing of non-significant effects (5 % level). No main effect was removed if the effect was included in a significant interaction effect.

The test statistics and the estimates of the ANOVA resulting in the reduced model are presented in Table 5. The residual of the model was analysed by the SAS Univariate procedure (SAS 1991a;b) as test of normality. The tests show that the assumptions of equal variances of the data, and that they are a random sample from a normal distribution on the 1 % level, were reasonable. The model describe the density data significantly on the 1 % level with 64 % of the total variation in the density data. (Tab. 5).

4.0 RESULTS

This report is the first to give quantitative estimates of the occurrence of the Rügen herring stock in the central Sound, and to identify the area as the main stock over-wintering area, on the basis of repeated investigations. The analyses of the hydroacoustic measurements and the parallel biological sampling show that the by far most abundant species in the Sound is herring from the late summer period and onwards to the following early spring period of the next year with peak abundance in the autumn. The measured biomass of herring in the Sound varies in the autumn period between 45,000 and 165,000 tons, and in the spring period from 5-10,000 up to 80-90,000 tons (Tab. 1). The herring biomass of 165,000 tons measured in autumn 1997 corresponds to approximately 1125 million herring (Tab. 1). Relatively high herring abundance was observed in the autumn 1993 and in the autumns 1996-97 corresponding to the strong 1988 and 1991 year classes. The 1988 year class was observed in the autumn 1993 as the 5 w-ring-group with a mean length of around 55 scm. The 1991 year class was observed as the 2 w-ring-group in the autumn 1993 with a mean length around 41-42 scm and again in the autumn 1994 as 3 w-ring-group with a mean length around 48 scm, whereas the 1988 year class as 6 w-ring-group has declined in the autumn 1994. In the estimated length distributions for the autumn 1996 (Fig. 58) the 2 w-ring-group, i.e. the 1994 year class, with length around 37-42 scm represents a major part of the biomass here compared to length distributions in the autumn of the two previous years, 1994 and 1995. This strong 1994 year class can again be identified in the autumn 1997 as 3 w-ring-group with a mean length around 45 scm where it is still a major component in the biomass. (Fig. 58; Tabs. 1 & 5). The observations of strong year classes, which were identified in the estimated length distributions in the autumn period obtained according to the methods described in the materials and methods section (the 1988, 1991 and 1994 year classes), are in good agreement with the observed strong year classes for the spring spawning Rügen herring stock based on larval index for the stock estimated from the larvae survey in Griefswalder Bodden and adjacent waters in the late spring period given by ICES (1998). According to larval index there have only been good year classes in the stock in 1991 and 1994 in the later years up to 1998 (ICES 1998).

In general, the strong year classes were first observed in the Sound as 2 w-ring-group during the autumn period (Fig. 58). This is in good agreement with the migration pattern described for different age groups of the spring spawning Rügen herring stock. The mature herring are reported to participate in the early northwards migration just after spawning up into the Kattegat-Skagerrak area towards the summer feeding grounds, and where a part of the 2 w-ring-group (larger, post-spawned specimens) are described to take part in this migration a bit later, whereas the 3 w-ring-group herring takes fully part in this migration (see the Discussion and references here).

The spawning stock biomass for the spring spawning Rügen herring stock in 1997 has been estimated to 205,000 tons by the ICES Working Group for the 3+ groups (ICES 1998). The present measurements of around 165,000 tons of herring (2+ group) in the Sound in the autumn 1997 indicates that the Sound is a major over-wintering and/or migration area for the spring spawning Rügen herring stock compared to the Belt Sea

(Tab. 1). Local, annual resident and spawning herring stock components in the Sound is not considered to contribute with important herring biomass as the total herring biomass in the Sound decreases to around 5000 tons or less during summer (May-July). The latter is in agreement with Otterlind's (1987) findings of no significant local spawning by herring in the Sound (see discussion). The observed timing of the peak biomass of herring in the Sound is in good agreement with the previously reported migration patterns for the spring spawning Rügen herring stock (Tab. 1; Biester 1979a,b; Jönsson and Biester 1981; ICES 1983a; Otterlind 1984; Otterlind 1987). In general, highest densities of herring were observed in the autumn period in the Sound (Tabs.1 & 5).

The observations of decreasing abundance of herring in the Sound in the spring period is in good agreement with the timing of the subsequent peak landings from the commercial German herring fishery at the spawning grounds (Griefswalder Bodden and surrounding areas) for the spring spawning Rügen herring stock (Fig. 61; Tab. 1). In 1994 and 1995 a decline in the abundance of herring in the Sound is observed in February-March and January-February, respectively, and the corresponding commercial herring fishery at the spawning grounds reaches its maximum a bit later in March-April. For the spring 1996, there seems to be a somewhat delayed decline in the herring abundance in the Sound until March-April, and here the corresponding commercial fishery does first reach its maximum in April-May. For the spring periods in 1997 and 1998, respectively, peak landings from the fishery is observed in March-April like in the 1994 and 1995 spring periods. Furthermore, in the spring 1998 the order of magnitude of the relative decrease in herring biomass from the biomass level in autumn 1997 is rather similar to the relative biomass declines observed in the 1994 and 1995 spring periods from the levels observed in the previous autumn periods, respectively. Also the order of magnitude of the relative decrease in biomass from the autumn 1995 period to the spring 1996 period is rather similar to the above levels even though the general biomass level of herring in the Sound is relatively smaller here compared to the other years within the investigation period from 1993-98. However, in the spring 1997 there seems to be an even more pronounced delay in the decline in the herring biomass in the spring than observed in the spring 1996. Also there is a relatively higher abundance of herring in March-April in 1997 in relation to the biomass the previous autumn when comparing to the situation in the previous years, especially in 1994 and 1995, and in 1998. The high biomass of herring in the Sound in the spring period 1998 is probably due to the generally higher stock biomass level in 1997-98 compared to the levels in previous years. In the spring 1998 the fishery situation seems to be different from the typical fishery situation as the commercial fishery show landings of normal quantities in February-March whereas the landings decline in April. Afterwards, the commercial fishery was stopped to a large extent due to low herring abundance's at the spawning grounds. Furthermore, problems with the export of the commercial German landings due to a Danish general strike in May-June also influence on the commercial fishery in this period. From the estimated length distributions in March 1998 (Fig. 58) it appears that a large amount of smaller herring was still present in the Sound.

The largest size groups of herring seem to migrate southwards from the Sound towards the spawning grounds in the spring before the smaller herring size groups (Fig. 58).

During autumn/winter a relative higher proportion of the herring in the Sound tends to belong to the large size groups (older herring) compared to the proportion of large herring in the Sound in the spring period (Fig. 58). This is in agreement with the age distributions observed in the German commercial fishery at the spawning grounds directed towards the Rügen herring stock. In this fishery the 5+ w-ring-group herring is typically dominant in the catches in the beginning of the season, March, whereas the 4 and 3 w-ring-groups become dominant in April and May. (Rechlin,O. & Gröshler,T., pers. comm., Institute für Ostseefisherei, Germany).

The estimated length distributions of herring in the Sound in October 1993-96 and in November 1997 show different length distribution patterns between years. For the years with high abundance of herring in the autumn there seems to be a tendency towards a relatively larger component of herring of the size range 32-47 scm than observed for other years.

The results of the analysis of density of herring in the Sound by a GLM ANOVA using a multiplicative model is presented in Table 5. The equation for the reduced model with all statistical significant main and first order interaction effects included is the following:

$$N / nm^2 = Y + SY + GS + DS + \Delta S + Y*GS + Y*DS + Y*\Delta S + SY*\Delta S + GS*DS + \varepsilon$$

In general, the highest densities of herring were observed in the northern strata of the Sound and in the autumn period (Tabs. 1 & 5; Figs. 4-57), i.e. in the area around the Island of Ven. Furthermore, highest densities were observed in the depth stratum 7.5-22.5 m from sea surface followed by the densities in the depth stratum 5-7.5 m, while relatively low densities were always observed in the deep water layers. (Figs. 4-57; Tab. 5). The herring was found to occur with the highest densities in the depth strata where the salinity range (delta S) was low (i.e. in the layers where the pycnocline was not located) (Fig. 62; Tab. 5). Where the water was stratified peak densities of herring were typically observed just below the halocline. The temperature range, i.e. the thermocline, seems not to influence on herring densities (Tab. 5). However, the density patterns of herring in the Sound are very complex as density varies very much between years, season of year, geographical strata and depth strata. This is evident from the presence of many statistically significant first order interaction effects between these factors tested in relation to herring density. (Tab. 5). No concentrations of herring occur in the Southern part of the Sound during the spring period before the spawning migration southwards to the spawning areas (Figs. 4-57). The over-wintering herring in the Sound showed, in general, a dense, scattered density pattern over a wide area in mainly the northern part of the Sound without showing typical schooling behaviour here (Figs. 4-57).

Water flow past Drogden versus estimated herring biomass.

On the average the total outflow of water from the Baltic through the Sound and the Belt Sea area is about 450 km^3 per year, depending mostly on the river runoff to the Baltic Sea area (Jacobsen 1980). Of this amount about one third passes the Sound giving a generally out-going current of brackish water in the surface layers and a generally in-going current of saltier water in the layers below the halocline driven by the mixing

processes in the halocline layer. Over-layered on this circulation is a strong pattern of inflows and outflows driven by the water level changes caused by the atmospheric conditions (wind and pressure) over the Skagerrak-Kattegat-Baltic Sea area. The tidal pattern is weak of the order of 20 cm/s peak to peak at neap tide and 60 cm/s at spring tide at Flinten and less at the other locations, compared to variations of 200 to 300 cm/s in the wind and atmospheric pressure driven flows.

In order to investigate possible short-term (days or weeks) or long-term (a year or two) effects the cumulative current for five consecutive seasons (July 1 of each year to June 30 the next year) and three seasons for Drogden are shown in Figures 63 – 65 together with the estimated herring biomass.

The hypothesis is that since the herring seems to prefer to stay in or below the halocline, they might during their southbound migration take advantage of strong inflow events when high saline water comes to the surface in the whole area. In this situation the herring would be using relatively less energy by migrating southwards with the current direction. Rapid decreases in biomass could indicate such a situation. Alternatively, delays in the migration might be expected during periods of extended strong outflows which could result in constant or slightly increasing herring biomass during such occasions. This hypothesis consequently suggests that inflows to the Baltic trigger southwards herring migration.

Indications of such behavior can be observed at some occasions (Figs. 63-65). However, from the time series presented it is not possible to make conclusions on the influence of major in- or outflow events on the southwards herring migration because the number of biomass estimates (surveys) are too few and with too long time intervals between them during the shown period. In nearly all periods between two subsequent surveys there are observed situations with both inflows and outflows, i.e. situations with both positive and negative slope on the cumulative flow curves (Figs. 63-65), from which no conclusions can be made of migrations either in direction with or against the current. Within the period Sep. '93 to Mar. '95, where monthly surveys were performed, there only seems to be one situation where the flow in all depths is uni-directional in the time between two successive surveys. This is in the period from the middle of February to the middle of March 1994 where the biomass in the Sound declined significantly during a situation with southbound currents. This pattern is the same at both Flinterenden (Fig. 64) and Nrd. Røse (Fig. 65). From January 1998 to the beginning of March 1998 a weak outflow component was observed which changes to a stronger outflow component from the beginning of March onwards to the middle of April 1998. Not until the middle of April and in May does the current become neutral. This could agree with the fact that still in April 1998 a relatively large biomass of herring was measured while the herring had disappeared from the Sound before the May 1998 survey. Also in March-April 1997 a relatively high biomass was observed on the same level as in March 1998. During April 1997 to the middle of May 1997 a relatively strong outflow component exist. Not until the second half of May does the current become neutral. This might indicate a similar situation as in 1998.

5.0 DISCUSSION

Comparison of the ICES (ICES 1998) estimates of spawning stock biomass (3+ group) in 1997 for the Rügen spring spawning herring stock and the present biomass estimates (2+ group) in the Sound indicates that the Sound is a major – probably the main - over-wintering and/or migration area for this herring stock compared to the Belt Sea (Tab. 1). Local, annual resident and spawning herring stock components in the Sound is not considered to contribute with important herring biomass during the survey period from 1993-1998 because of low total herring biomass in the Sound during summer (May-July). Literature supports this result where the main component of herring in the Sound during the autumn and winter period is from the Rügen spring spawning stock (Biester 1979a,b; Otterlind 1984; Otterlind 1987; ICES 1998). Several local stocks has been identified (Jensen 1957; Otterlind 1987), among those the herring stock that spawns during January-March along the Höganäs-Kullen coast which also occurs in the northern part of the Sound (Otterlind 1984, 1987). However, these local stocks are considered not to be abundant and without significant spawning in the later years from around 1980 (i.e. including the survey period) and only historically important in some years (ICES 1998). Furthermore, the observations of strong herring year classes observed in the autumn period in the present studies (the 1988, 1991 and 1994 year classes), are in good agreement with the observed strong year classes for the spring spawning Rügen herring stock based on larval index for the stock estimated from the larvae survey in Griefswalder Bodden and adjacent waters in the late spring period given by ICES (1998). This also suggests that the main component of herring in the Sound belongs to the spring spawning Rügen herring stock.

The timing of the biomass peak of herring in the Sound is in good agreement with the previously reported migration patterns for the spring spawning Rügen herring stock (Tab. 1; Biester 1979a,b; Jönsson and Biester 1981; ICES 1983a; Otterlind 1984). In general, highest densities of herring were observed in the autumn period in the Sound over the year (Tabs.1 & 5). However, at no time has the total stock of spring spawning Rügen herring been covered by surveys in all of its distribution area on the same time which makes the spawning stock biomass estimates uncertain (ICES 1984a,b; ICES 1998). Furthermore, the migration from the spawning grounds in the western Baltic Sea northwards to the feeding areas (Skagerrak-Kattegat and even into the North Sea) of spawned herring is not well documented (Biester 1979a,b; Jönsson and Biester 1981; ICES 1983a; Otterlind 1984). Fishing does not provide much information about the migration out of the Baltic in spring-summer as there is no considerable fishing of herring at this time on the Swedish side, either in the south-western-most Baltic or in the Sound (Otterlind 1984, 1987). However, the results from tagging experiments reported in Jönsson and Biester (1979) indicate that this northwards migration takes place both through the Sound and the Belt Sea. Other herring from the stock, particularly younger fish, migrate eastwards to the border waters of the Bornholm Basin, and sometimes even more easterly, after spawning (Biester 1979a,b). Concerning over-wintering herring in the Sound, Otterlind (1984, 1987) summarise that herring from the Rügen spring spawning stock mainly stay with high abundance in the Sound in the period from September-November to December-January, however, the results in the present study

show that herring probably are very abundant in the Sound in a more prolonged period from August-September to March. The present results also do not support Otterlind (1984) in the observation of herring occurring in dense shoals in the Sound when over-wintering here. Our results indicate that the herring are densely scattered over a wide area in mainly the northern part of the Sound without showing typical schooling behaviour during night, and to occur in multiple, small groups during day time.

Only relatively few spent herring were found in the Sound in the present sampling programme, and no distinct and consequent temporal, geographical and sex specific patterns in the distribution could be distinguished for the spent herring (Nielsen 1996). However, sexual maturity indices from the present investigations seem to indicate that the spent herring do not concentrate in the Sound and that there is some continuous migration in the spring from March to May of spawned herring from the southern spawning grounds northwards through the Sound (Nielsen 1996). Previous results (Nielsen, 1996), however, showed no indication of occurrence of relatively fewer mature than immature herring in the spring period compared to the autumn period as the relationship between number of mature and immature herring in the Sound seems pretty constant from autumn to spring.

In general, strong year classes were first observed in the Sound as 2 w-ring-group during the autumn period in the Sound. This is in good agreement with the migration pattern described for the spring spawning Rügen herring where the mature herring participates in the early northwards migration up into the Kattegat-Skagerrak area towards the summer feeding grounds. The migration pattern for those 2-w-ringers that spawn (mature) in the spring and those who do not spawn (immature) is somewhat different. A part of the 2 w-ring-group, i.e. the larger specimens and first-spawners, takes part in this north-westwards migration in late spring after late spawning (May-June) whereas the 3 w-ring-group herring takes fully part in this (early) migration. (Biester 1979a,b; Jönsson and Biester 1979; Jönsson and Biester 1981; ICES 1983a; Otterlind 1984; ICES 1998; Rechlin,O. pers. comm., Institute für Ostseefisherei, Germany). That the 2 w-ring-group is only partly associated with the migration pattern of the 3 w-ring-group and older spring spawning Rügen herring is also indicated by the studies on parasite infestations with the larvae of *Anisakis* (Kühlmorgen-Hille 1983; ICES 1983a). In this study it was found that the degree of infestation increases with age and that the young (up to around 2 years old) usually lack parasites completely. Early hosts for the *Anisakis* larvae are Euphausiid species which are absent in the very brackish Baltic waters. A part of the young herring migrates eastwards from the spawning grounds to the border waters of the Bornholm basin, from where a lot of them probably turns westwards later on. A third part of the young herring stays in the south-western Baltic Sea all year round and for a part over-winters in the more eastern areas. The 1-w-ringers occurring in the autumn in the Sound is not an important part of the total herring biomass here (Otterlind 1984, 1987). This is also supported by the results on age distributions from the international acoustic survey in the Baltic Sea performed by R/V Solea in the autumn period. Here 1-w-ringers is not an important part of the herring biomass in the Sound (Survey reports from the ICES international acoustic survey in the autumn period of the western Baltic Sea, 1993-1998, performed with R/V Solea; Rechlin,O. pers. comm., Inst. f. Ostseefisherei, Germany).

The present observations of decreasing abundance of herring in the Sound in the spring period is in good agreement with the timing of peak landings from the commercial German herring fishery at Griefswalder Bodden at the spawning grounds for the spring spawning Rügen herring stock. Also these results support the hypothesis that the Sound is a main over-wintering area for the Rügen spring spawning herring, and that an important part of the herring stock stay in the Sound until just before spawning. In landings of herring from the western Baltic Sea during July-October adult fish are rather rare, especially the larger categories. This supports the assumption that adult herring migrate from the Baltic Sea into Kattegat / Skagerrak during the second half of the year, and return to the spawning places in spring (ICES 1983a).

The herring does not concentrate in the southern part of the Sound in spring to migrate all together out of the Sound heading towards the spawning areas (Figs. 4-57). The mainly northern distribution of the herring in the Sound in autumn-winter is supported by the literature studies of historical fisheries (Otterlind 1984, 1987). The present results indicate that there exists a size dependent migration pattern for herring heading towards the spawning grounds from the Sound. The largest size groups of herring seem to migrate southwards from the Sound towards the spawning grounds in spring before the smaller herring size groups, which is in agreement with the age distributions observed in the German commercial fishery at the spawning grounds directed towards the Rügen herring stock (Rechlin,O. and Gröshler,T., pers. comm., Institute für Ostseefisherei, Germany). The present results show that there is a relative higher proportion of large (older) herring in the Sound in the autumn period compared to the spring period.

In the spring 1997 there seems to be a pronounced delay in the decline in the herring biomass in the Sound, and there is observed a relatively high abundance of herring in March-April 1997, compared to the situation in previous years, especially in the spring 1994 and 1995. Furthermore, a generally lower level of herring biomass in 1995-96 is observed in the Sound compared to levels in the other years during the investigation period. It is for the existing time series not possible to conclude on the causes of the relatively modest decline in biomass from the autumn period 1996 to the spring period in 1997 compared to the situation in the years 1993-94, 1994-95, 1995-96 and 1997-98. (Fig. 61). These variations may very well be caused by natural variation in the overall level of the stock biomass for the Rügen herring stock in the different years. Whether the dredging activities in relation to construction of the fixed link across the Sound has had an influence or not on the herring abundance in the Sound, and in relation to the migration patterns in the period 1995-1997, can not be concluded based on the present data material because the existing data time series is very limited and because the variation in data is very high within the investigated time period. It should be noted, however, that the high biomass of herring in the Sound in the spring period 1998 is probably due to a general high stock biomass level of the Rügen herring stock in 1997-98 compared to the level in the previous years. Furthermore, the changes in herring densities over time in the Sound has been discussed in relation to the current conditions below.

The occurrence of relatively high levels of herring biomass in the Sound in the spring period is not contradictory to the occurrence of overlapping peaks in time of the

commercial fishery at the spawning grounds. The larger herrings typically migrate southwards first and the early catches in the fishery at the spawning grounds are typically dominated by the larger herring. This means that a relatively high biomass of small herring very well can stay in the Sound and perform a later spawning migration.

In the present study it has not been possible to identify factors triggering the southwards migration of mature herring from the Sound towards the spawning grounds. Southbound water currents in the Sound might be a part of this process, however, our data time series do not allow for final conclusions on that matter. In that context it should be considered carefully that the literature indicate that changes in spawning times, spawning areas and migrations habits for the Rügen spring spawning herring have occurred from time to time in relation to stock abundance, population development and environmental factors influencing on the stock. Highly variable environmental factors influence the stock as it lives in a transitional area between the Baltic and North Seas, which is a mixing area for several herring stocks and, furthermore, the stock is often exposed to heavy exploitation here. (Biester 1979a,b; ICES 1983a; Otterlind 1984; Otterlind 1987; ICES 1998).

Method and data uncertainties (supplement to the materials and methods section)
The collection of both hydroacoustic and fishery data is based on the principle of random stratified sampling and the sampling of the two types of data are generally overlapping in time and space. However, in the spring 1998 the gill net catches were generally low. Consequently, biological data from trawl fishery with R/V Argos in (February -) March 1998 was used in the evaluation of the hydroacoustic data for the spring 1998 surveys. The data on fish stock composition in the Sound originating from the catch in these trawl hauls is assumed to be representative for the fish stock composition in the Sound during the spring 1998 surveys. This assumption is probably fulfilled for the March 1998 survey as there is overlap in time and space between the two types of sampling. However, for the May 1998 hydroacoustic survey the herring abundance estimate is subject to some uncertainty because of the larger time lag between the two types of sampling. The herring stock composition may very well have changed between the two periods as a certain migration of herring southwards out of the Sound has occurred during that period. However, as the acoustic estimates in the May 1998 survey are low, as expected, the absolute biomass error is considered to be rather limited. No other fishery data was available for the May 1998 period in the Sound.

In relation to incomplete coverage of the survey area the experience from pilot-investigations, the present gillnet fishery and from commercial gillnet fishery is that only a small fraction of the herring biomass occurred in the upper 5 m surface layer of the water column during night in all of the Sound area, as well as at localities with bottom depths less than 5 m. The survey track lines usually extended to well beyond the point where there were any clear indications of herring abundance left in the near shore areas.

Since a survey takes about a week there is a risk of either missing a part of the fish population or measuring a part of the population more than once, if the fish migrates within the Sound during this period. If this is the case these two opposite influences on the acoustic estimates are assumed to compensate for each other on the average.

The hydroacoustic measurements were performed during night-time primarily to avoid the problems of fish aggregating close to or on the bottom which makes it difficult to separate fish echoes from the bottom echo. Another advantage of night measurements is that herring schools in general have dissolved, which means that errors due to fish in the upper part of the water column shadowing fish in the lower part of the water column or due to multiple scattering in the schools can be considered negligible (Foote, 1982; 1990). However, the risk of shadowing and possible mixing of echoes from dense herring aggregations with bottom echoes is higher in periods and areas with high herring densities and both influences will result in a small under-estimate of the herring abundance. Another density related problem of acoustic multiple target detection is not relevant since no direct TS-measurements were performed on single fish in this study. It is not the number of reflections that were estimated here but only the total reflected integration energy was used in the present study.

An important uncertainty in the acoustic measurements is the uncertainty of the calibration factor which was found to be appr. 1 dB corresponding to +/-12% for the EY200 on the R/V Havfisken and appr. 0.5 dB (+-5%) for the EK400 on R/V Dana.

6.0 CONCLUSION

The present monitoring investigations and the main results from the performed surveys as well as the analyses of the data sampled during these surveys, which are presented in this report, indicate that the protective criteria for the herring and their environment in relation to their occurrence and migration in and through the Sound has not been violated in relation to the activities during establishment of the fixed link across the Sound. This is to be seen in light of the environmental protective criteria set up by the Danish Ministry of Environment and Swedish authorities regarding herring migrations in the Sound (Miljø- og Energiministeriet og Trafikministeriet 1995; Växjö Tingsrätt, Vattendomstolen 1995). This conclusion should be seen in perspective of the high variations in the stock biomass level of the Rügen herring stock within the investigated time period, which are probably of natural origin. High variations in the herring biomass and relative densities between time periods and geographical areas have also been observed within the Sound area during the monitoring period. Whether this variation is a consequence of the variation in the overall stock level and caused by natural variation in the stock or is caused by the dredging activities in relation to establishment of the fixed link across the Sound can not be concluded. However, there seems not to have been situations where extreme quantities of herring have concentrated in the Sound for longer time periods in relation to their southwards migration. Nor do the spawning migrations seem to have been blocked during longer time periods preventing spawning migration because of the dredging activities.

7.0 ACKNOWLEDGEMENTS

ØSK ("Øresundkonsortiet") has financed the survey activities for which the results are presented in this paper as a part of the base-line study and of the environmental impact monitoring in relation to the construction of the fixed link between Denmark and Sweden. Also ØSK has been helpful in the process of providing hydrographical data. We would like to thank the Royal Danish Administration for Navigation and Hydrography and DHI (Danish Hydraulic Institute) for supplying data on current speed and current direction at Drogden and Flinterenden / Nrd. Røse, respectively. Furthermore, we would like to thank the National Board of Fisheries, Institute of Marine Research, Lysekil for supplying survey results from the R/V Argos survey activities in the Sound from the international bottom trawl survey (ICES) in the western Baltic Sea. Finally, we thank the Bundesforschungsanstalt für Fishery, Institute für Ostseefisherei, Rostock for supplying survey data from the international hydroacoustic survey (ICES) with R/V Solea in ICES Subdivision 23 as well as supplying us with data from the official German catch statistics.

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Table 1. **Overview over survey activities, and density per geographical stratum (t/nm**2 & N/nm**2) of herring subdivided by survey and geographical strata. Furthermore, total biomass (BM) in tons (t) and abundance (N) in millions for the whole Sound area for each survey is presented.**

SURVEY	S0193	S0293	S0393	S0494	S0594	S0694	S0794	S1094	S1194	S1294	S0195	S0295	S0395	S0495	S0595	S0695	S0795	S0995	S0196	S0496	S1096	S1196	S0397	S0497	S1197	S0398	S0598
PERIOD	Sep. '93	Oct. '93	Dec. '93	Jan. '94	Feb. '94	Mar. '94	Apr. '94	Oct. '94	Nov. '94	Dec. '94	Jan. '95	Feb. '95	Mar. '95	Apr. '95	May '95	Jul. '95	Aug. '95	Oct. '95	Mar. '96	Apr. '96	Oct. '96	Nov. '96	Mar. '97	Apr. '97	Nov. '97	Mar. '98	May '98
Acoustic integrat.	17-22/9	25-30/10	29/11-4/12	10-15/1	14-19/2	14-19/3	11-16/4	17-20/10	21-27/11	12-16/12	9-16/1	6-10/2	27/2-4/3	27/3-2/4	25, 30-31/5	10-11/7	6-11/8	9-13/10	18-22/3	10-14/4	30/9-8/10	11-17/11	3-9/3	5-10/4	11-15/11	30/3-3/4	17-19/5
Gillnet sampling	X	X	X	X	X	X	X	X	X	X	X	X	X	X			(X)	X	X	(X)	X	X	X	X	X	X	X
Trawl sampling		X						X								X		X			X			X	X	X
Hydrogr. sampling								X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X
Exten. ind. sampling		X		X				X		X		X		X					X		X	X	X	X	X	X	X

HERRING DENSITY IN TONS PER NM**2

SURVEY	S0193	S0293	S0393	S0494	S0594	S0694	S0794	S1094	S1194	S1294	S0195	S0295	S0395	S0495	S0595	S0695	S0795	S0995	S0196	S0496	S1096	S1196	S0397	S0497	S1197	S0398	S0598
PERIOD	Sep. '93	Oct. '93	Dec. '93	Jan. '94	Feb. '94	Mar. '94	Apr. '94	Oct. '94	Nov. '94	Dec. '94	Jan. '95	Feb. '95	Mar. '95	Apr. '95	May '95	Jul. '95	Aug. '95	Oct. '95	Mar. '96	Apr. '96	Oct. '96	Nov. '96	Mar. '97	Apr. '97	Nov. '97	Mar. '98	May '98
STRATUM																											
G01	540,64	276,17	-	-	-	-	16,96	294,47	46,08	406,19	100,26	26,72	238,04	36,04	35,47	22,62	1.109,92	235,39	224,83	143,54	105,25	1.243,41	143,88	305,87	1.411,55	800,28	60,19
G02	715,31	391,41	443,30	535,67	151,05	96,97	42,13	426,46	73,08	237,84	118,69	85,26	100,09	37,55	55,47	19,39	343,75	208,25	177,42	40,77	546,37	552,66	285,74	529,64	1.307,64	194,11	30,54
G03	494,62	469,32	429,95	855,59	1.185,66	139,30	80,91	489,28	59,43	484,24	203,98	80,78	130,40	61,59	39,48	14,87	562,07	401,64	242,39	135,31	136,11	617,12	539,92	688,52	1.615,28	508,30	27,25
G04	587,25	380,22	225,06	476,30	1.414,19	99,66	39,70	556,36	219,83	363,63	151,98	29,50	215,16	48,77	43,75	11,00	502,03	250,21	341,93	162,32	617,46	706,52	376,15	309,48	885,68	508,90	40,22
G05	381,07	439,74	215,76	364,64	584,61	90,93	21,31	434,42	260,12	170,39	176,53	28,20	56,79	37,15	70,45	19,35	275,10	311,02	212,59	120,49	278,31	472,92	206,14	151,29	807,21	271,75	28,41
G06	576,90	386,73	212,33	319,94	553,54	94,11	26,55	333,43	227,30	147,48	184,43	20,86	55,08	70,35	51,45	1,00	181,30	121,70	116,81	151,13	420,56	435,09	728,85	253,72	619,22	291,67	37,01
G07	513,57	253,80	280,01	238,05	105,84	124,53	14,20	229,91	184,69	100,26	77,42	26,64	54,38	96,71	37,52	0,61	213,51	77,78	140,02	23,02	687,90	233,82	254,66	244,83	484,32	218,58	32,44
G08	377,61	386,15	54,47	226,83	-	-	9,26	259,92	279,33	186,27	107,95	28,73	27,03	26,25	39,33	0,34	82,30	293,85	61,16	63,19	510,09	199,06	0,01	105,45	465,81	203,44	26,72
G09	369,25	370,43	359,55	145,95	144,56	-	5,49	495,32	204,81	163,10	208,84	36,20	16,33	18,74	31,73	0,23	147,21	121,40	61,37	32,47	241,44	133,43	0,01	68,63	255,20	54,11	23,35
G10	382,06	166,24	257,92	91,69	71,28	-	4,79	131,39	345,46	154,49	6,61	9,12	18,46	12,63	53,48	0,24	103,75	51,43	51,84	31,61	15,26	79,01	0,01	19,74	218,04	99,47	13,79
G11	179,58	281,74	224,94	145,29	5,54	-	3,51	32,98	56,05	90,46	5,91	3,24	44,30	8,01	-	0,08	24,90	41,62	26,08	9,88	9,64	4,85	0,01	2,03	2,87	11,72	3,70
G12	148,38	30,56	30,63	5,09	2,22	-	1,44	0,98	2,96	2,63	5,68	0,65	3,60	4,28	0,18	0,12	24,71	2,73	1,97	1,09	1,82	2,56	0,93	0,77	-	-	-
G13	-	-	-	-	-	-	-	1,19	1,92	2,71	-	-	-	-	1,68	0,12	-	-	-	-	-	-	-	-	-	-	-
MEAN	438,85	319,38	248,54	309,55	421,85	107,58	22,19	283,55	150,85	191,51	112,36	31,33	79,97	38,17	35,38	6,92	297,55	176,42	138,20	76,24	295,85	390,04	211,36	223,33	733,89	287,48	29,42
MIN	148,38	30,56	30,63	5,09	2,22	90,93	1,44	0,98	1,92	2,63	5,68	0,65	3,60	4,28	-	0,08	24,71	2,73	1,97	1,09	1,82	2,56	0,01	0,77	2,87	11,72	3,70
MAX	715,31	469,32	443,30	855,59	1.414,19	139,30	80,91	556,36	345,46	484,24	208,84	85,26	238,04	96,71	70,45	22,62	1.109,92	401,64	341,93	162,32	687,90	1.243,41	728,85	688,52	1.615,28	800,28	60,19
BM: SOUND, TOTAL	118.832,00	87.793,85	65.481,78	77.421,32	91.081,31	15.932,86	5.608,95	83.609,38	50.049,02	50.784,87	31.395,20	8.269,60	17.703,28	11.510,68	10.759,33	1.548,38	65.074,65	45.690,14	34.989,40	19.068,80	90.595,39	88.404,08	56.406,32	56.553,74	163.183,91	62.143,54	7.088,73

HERRING DENSITY IN NUMBER IN MILLIONS PER NM**2

SURVEY	S0193	S0293	S0393	S0494	S0594	S0694	S0794	S1094	S1194	S1294	S0195	S0295	S0395	S0495	S0595	S0695	S0795	S0995	S0196	S0496	S1096	S1196	S0397	S0497	S1197	S0398	S0598
PERIOD	Sep. '93	Oct. '93	Dec. '93	Jan. '94	Feb. '94	Mar. '94	Apr. '94	Oct. '94	Nov. '94	Dec. '94	Jan. '95	Feb. '95	Mar. '95	Apr. '95	May '95	Jul. '95	Aug. '95	Oct. '95	Mar. '96	Apr. '96	Oct. '96	Nov. '96	Mar. '97	Apr. '97	Nov. '97	Mar. '98	May '98
STRATUM																											
G01	6,48	3,71	-	-	-	-	0,17	2,20	0,33	2,22	0,61	0,20	1,79	0,27	0,27	0,23	6,55	1,51	1,70	1,08	1,24	16,23	1,74	3,71	12,78	10,57	0,99
G02	8,58	4,81	6,78	6,22	1,76	1,15	0,42	2,78	0,53	1,30	0,72	0,55	0,84	0,24	0,36	0,20	2,19	1,45	0,99	0,23	5,64	7,24	2,43	4,51	11,84	2,56	0,50
G03	7,54	5,54	6,57	9,94	13,76	1,47	0,86	2,79	0,49	2,81	1,39	0,52	0,84	0,39	0,25	0,15	3,29	2,56	1,39	0,78	1,62	7,19	4,72	6,02	10,77	6,71	0,45
G04	9,17	4,40	3,44	5,18	15,39	1,05	0,47	4,09	1,65	2,21	0,89	0,22	1,57	0,36	0,32	0,13	2,60	1,52	1,85	0,88	9,12	8,52	3,36	2,77	6,84	6,72	0,66
G05	3,05	3,50	1,76	2,36	3,78	0,62	0,15	2,30	1,24	1,09	1,12	0,23	0,36	0,30	0,57	0,22	1,41	1,75	1,12	0,63	3,05	3,09	3,82	2,80	4,78	3,59	0,47
G06	4,33	2,97	1,75	2,11	3,65	0,67	0,19	2,16	1,79	1,03	1,40	0,17	0,39	0,56	0,42	0,11	0,77	0,57	0,77	0,99	3,08	2,70	6,11	2,13	3,47	1,53	0,61
G07	3,71	1,91	2,16	1,60	0,71	0,78	0,10	1,49	1,31	0,83	0,62	0,21	0,42	0,73	0,28	0,07	1,34	0,53	0,97	0,16	5,42	1,67	2,13	2,05	3,19	1,15	0,53
G08	2,73	2,77	0,46	1,52	-	-	0,07	1,80	1,99	1,16	0,66	0,21	0,19	0,19	0,28	0,04	0,54	2,10	0,32	0,34	3,82	1,56	0,01	1,00	2,34	1,07	0,44
G09	3,32	3,05	3,06	0,83	0,82	-	0,04	2,54	1,09	0,96	1,18	0,31	0,14	0,16	0,27	0,03	0,75	0,67	0,35	0,19	1,82	1,18	0,01	0,71	1,68	0,28	0,38
G10	3,19	1,37	2,19	0,58	0,45	-	0,03	0,69	1,80	0,85	0,04	0,08	0,16	0,11	0,46	0,03	0,57	0,31	0,29	0,18	0,11	0,57	0,01	0,20	1,32	0,52	0,23
G11	1,50	2,32	1,85	0,91	0,03	-	0,02	0,23	0,30	0,50	0,03	0,03	0,35	0,06	-	0,01	0,14	0,25	0,16	0,06	0,07	0,04	0,01	0,02	0,02	0,06	0,06
G12	1,15	0,25	0,25	0,03	0,01	-	0,01	0,01	0,02	0,01	0,03	0,01	0,03	0,03	0,01	0,01	0,16	0,02	0,01	0,01	0,01	0,02	0,01	0,01	-	-	-
G13	-	-	-	-	-	-	-	0,01	0,01	0,01	-	-	-	-	0,01	0,01	-	-	-	-	-	-	-	-	-	-	-
MEAN	4,56	3,06	2,75	2,84	4,04	0,96	0,21	1,78	0,97	1,15	0,72	0,23	0,58	0,29	0,27	0,10	1,71	1,10	0,83	0,46	2,92	4,17	2,03	2,16	5,37	3,16	0,48
MIN	1,15	0,25	0,25	0,03	0,01	0,62	0,01	0,01	0,01	0,01	0,03	0,01	0,03	0,03	-	0,01	0,14	0,02	0,01	0,01	0,01	0,02	0,01	0,01	0,02	0,06	0,06
MAX	9,17	5,54	6,78	9,94	15,39	1,47	0,86	4,09	1,99	2,81	1,40	0,55	1,79	0,73	0,57	0,23	6,55	2,56	1,85	1,08	9,12	16,23	6,11	6,02	12,78	10,57	0,99
N: SOUND, TOTAL	1.151,44	792,08	680,47	674,29	835,97	132,02	51,30	513,32	320,07	314,88	205,17	61,42	127,22	88,91	82,67	24,80	370,40	284,93	207,56	113,07	839,50	857,73	553,13	537,45	1.125,67	608,93	116,48

Table 2. **Technical data and calibrated (basic) settings for the acoustic survey integration systems.**

Vessel	R/V HAVFISKEN	R/V DANA
Echosounder	SIMRAD EY 200, 38 kHz	SIMRAD EK 4OO, 38 kHz
Transducer	SIMRAD ceramic 38-29/25	SIMRAD
SL + VR	109,9	132,5
10 log psi	-12,9	-20,2
Sound velocity	1472 m/s	1470 m/s
Pulse length	0.0010 s	0.0010 s
TVGc	64,6	64,6
Vpp/unit (20 log R)	0,0010000	0,001006
A/D zero point adjust:		
Phase 1	17	12
Phase 2	15	12

Table 3. **Technical measurements of the gillnets.**

Mesh size mm	Height (m)	Length (m)	Area (m^2)
18,5	5,7	30	171
21	5,7	30	171
26	5,0	39	195
27	5,0	39	195
28	5,4	40	216
29	5,0	40	200
34	5,1	34	173
46	4,7	40	188
55	4,9	40	196
60	4,8	40	192

Table 4. **Regression equations and statistics for length-weight relationships divided by year and season of year, and weight in grams at given lengths in scm.**

Year	Season	Regression equation for length-weight relationship	W (35 scm)	W (55 scm)	Std. Err. intercept	Std. Err. ln lgt	DF model	DF Error	R**2	N	P > F	F
1994	Autumn	W=weight=exp((-9.1024)+(3.5911*(log(length))))	28,5	57,7	0,1289	0,0326	1	561	0,9559	562	0,0001	12150,31
1995	Spring	W=weight=exp((-8.1299)+(3.3233*(log(length)))	49,9	95,7	0,1616	0,041	1	517	0,927	518	0,0001	6566,25
1996	Spring	W=weight=exp((-7.6968)+(3.1946*(log(length)))	63,0	118,0	0,1717	0,0435	1	344	0,94	345	0,0001	5386,24
1996	Autumn	W=weight=exp((-7.9973)+(3.2952*(log(length)))	54,5	104,1	0,1771	0,045	1	736	0,8795	737	0,0001	5371,29
1997	Spring	W=weight=exp((-6.9575)+(3.0112*(log(length))))	99,5	179,6	0,1262	0,0321	1	504	0,9458	505	0,0001	8787,30
1997	Autumn	W=weight=exp((-7.9119)+(3.2646*(log(length)))	56,6	107,5	0,1507	0,0384	1	335	0,9558	336	0,0001	7239,83

Table 5. **The descriptive statistics of the GLM analyses of variance and estimated parameters from the multiplicative GLM model. The sum of squared deviations (s. of sq.) for the various dependent effects are of type III sum of squares for the model (SAS, 1990; 1991a;b), which for type III is independent of the order of the effects in the model. Finally, descriptive statistics of the test of normality for each model are given.**

Descriptive statistics: Source	Model	Degrees of freedom	Sum of squares	F	Probability > F
Model	1	134	3369 E12	10,26	0,0001
Error	1	778	1906 E12		
Corrected total	1	912	5275 E12		
R-square					$r^2 = 0.64$
Source		**Degrees of freedom**	**Sum of squares**	**F**	**Probability > F**
Year	1	5	110 E12	8,97	0,0001
Season of year	1	1	39 E12	15,93	0,0001
Geographical stratum	1	11	375 E12	13,90	0,0001
Depth stratum	1	3	1092 E12	148,60	0,0001
Salinity range (delta S)	1	3	135 E12	18,31	0,0001
Year*Geographical stratum	1	54	625 E12	4,73	0,0001
Year*Depth stratum	1	15	1070 E12	29,12	0,0001
Year*Salinity range	1	12	384 E12	13,06	0,0001
Season of year*Salinity range	1	3	46 E12	6,21	0,0004
Geographical stratum*Depth stratum	1	27	303 E12	4,57	0,0001
Estimates of parameters: Parameter		**Group**	**Estimate**	**T for H0; Par.=0**	**Pr. > |T|**
Intercept	1	Intercept	-18.8 E6	-7,74	0,0001
Year	1	1993	8.2 E6	4,88	0,0001
	1	1994	13.3 E6	4,69	0,0001
	1	1995	15.6 E6	5,13	0,0001
	1	1996	16.6 E6	8,09	0,0001
	1	1997	16.8 E6	6,64	0,0001
	1	1998	0	.	.
Season of year	1	Autumn	4.2 E6	2,30	0,0217
	1	Spring	0	.	.
Geographical stratum	1	G01	11.7 E6	5,24	0,0001
	1	G02	6.7 E6	2,92	0,0036
	1	G03	9.2 E6	4,10	0,0001
	1	G04	10.4 E6	4,66	0,0001
	1	G05	7.6 E6	3,42	0,0007
	1	G06	5.4 E6	2,16	0,0312
	1	G07	2.9 E6	1,05	0,2943
	1	G08	4.5 E6	1,78	0,0751
	1	G09	3.3 E6	2,12	0,0344
	1	G10	0.7 E6	0,44	0,6578
	1	G11	-0.3 E6	-0,26	0,7951
	1	G12	0	.	.
Depth stratum	1	6	5.1 E6	2,72	0,0067
	1	16	14.0 E6	7,55	0,0001
	1	26	3.1 E6	1,53	0,1268
	1	46	0	.	.
Salinity range (delta S)	1	1	9.5 E6	11,65	0,0001
	1	2	8.8 E6	5,96	0,0001
	1	3	-1.8 E6	-1,50	0,1329
	1	4	0	.	.
Test of normality: Variable		**N**	**W:Normal**	**Pr < W**	
Residuals	1	913	0.6800	0,0001	

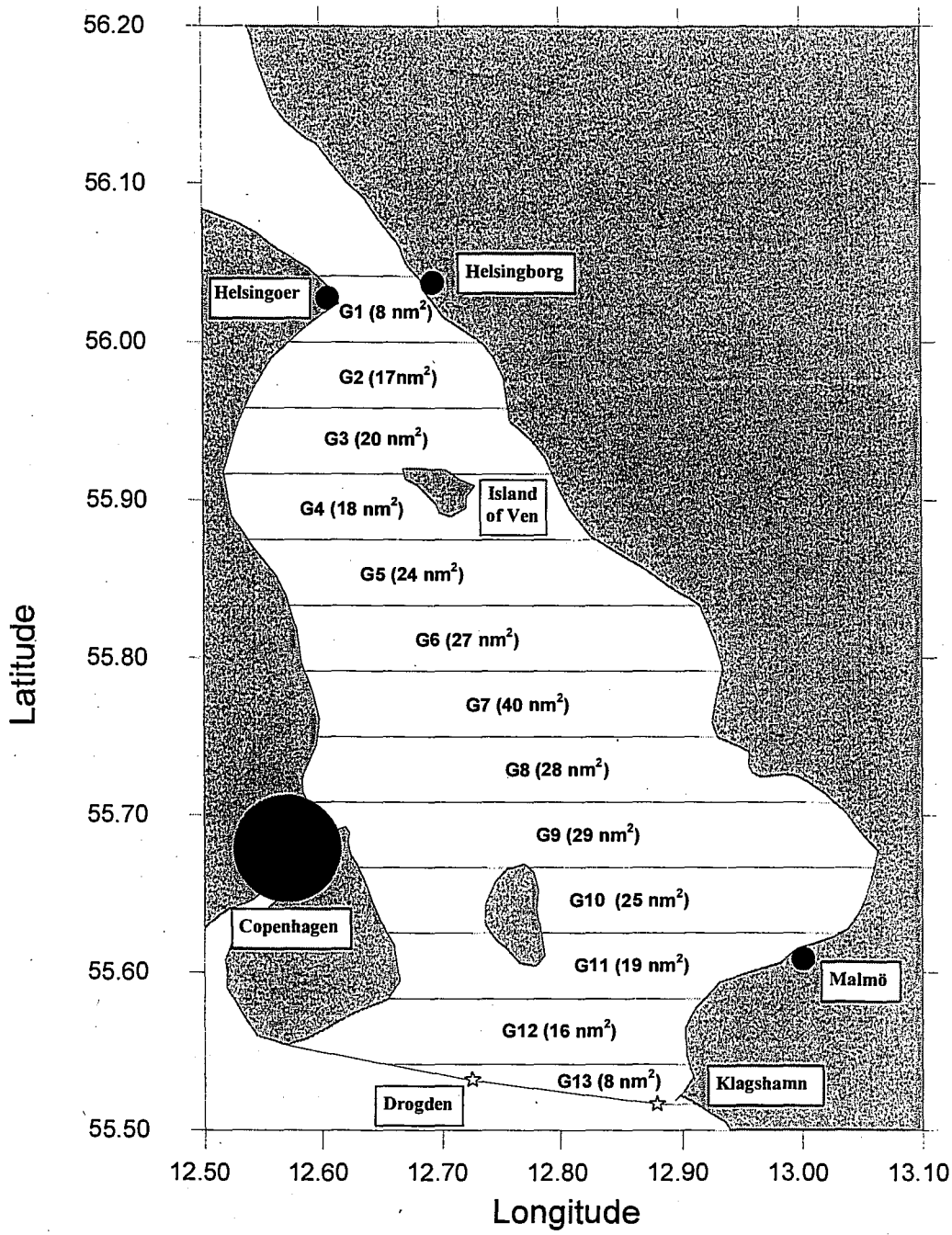

Figure 1. Map over the survey area in the Sound (ICES SD 23) by geographical stratum

Hydroacoustic Transects

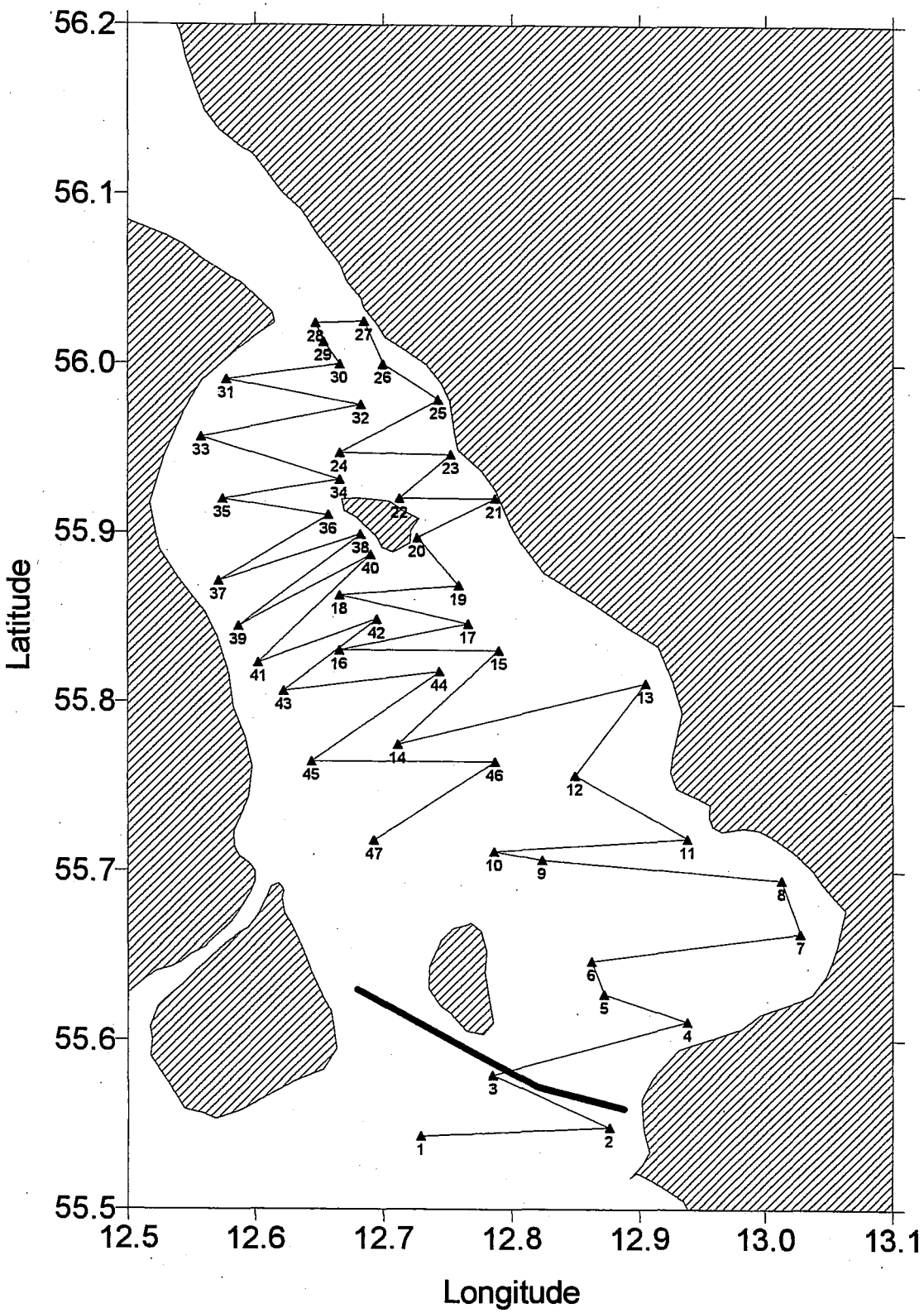

Figure 2. Hydroacoustic transects in the survey area with waypoints for change of course shown.

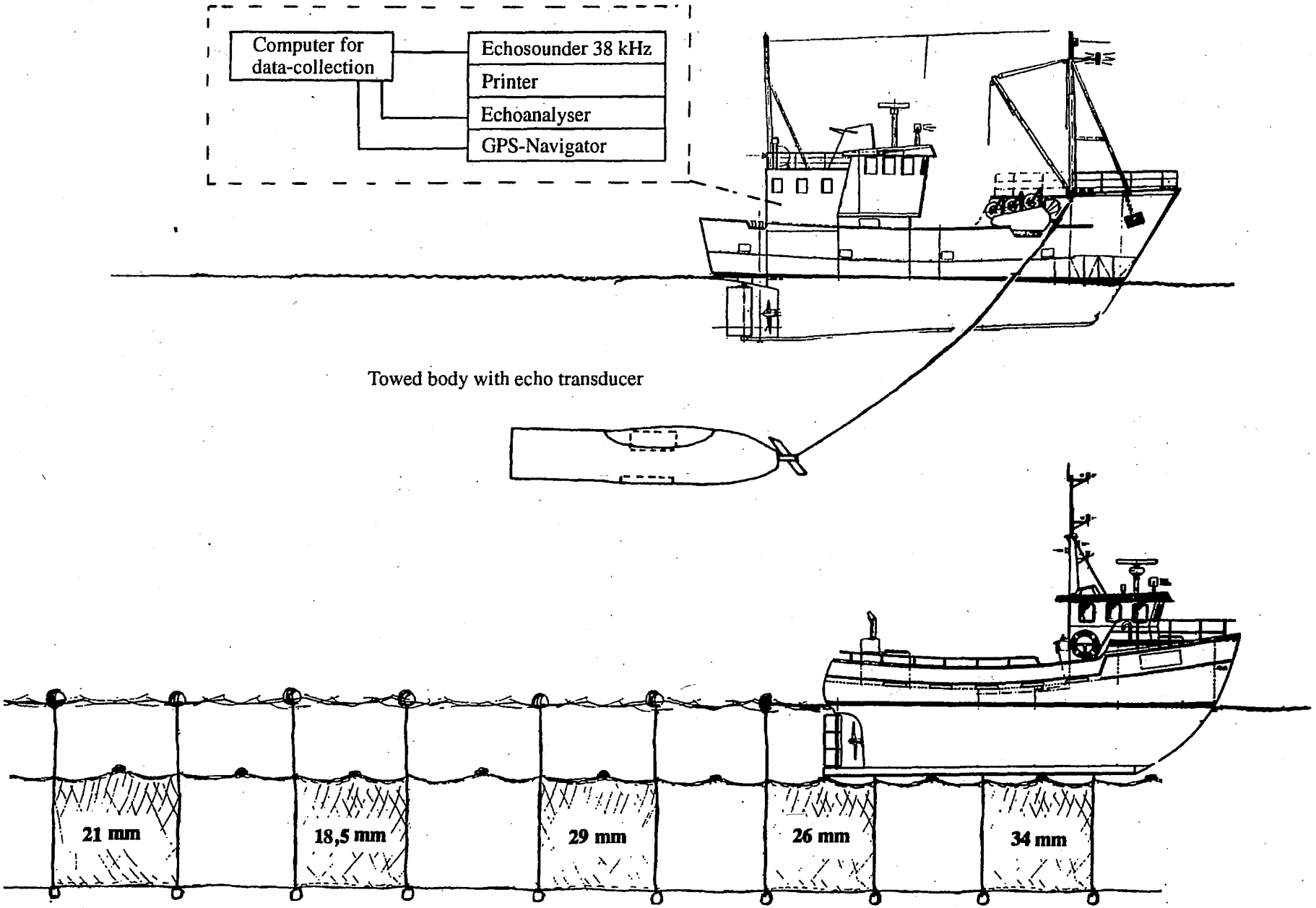

Figure 3 Diagrammatic set-up of the hydroacoustic data sampling system and of the biological sampling method with experimental gillnets.

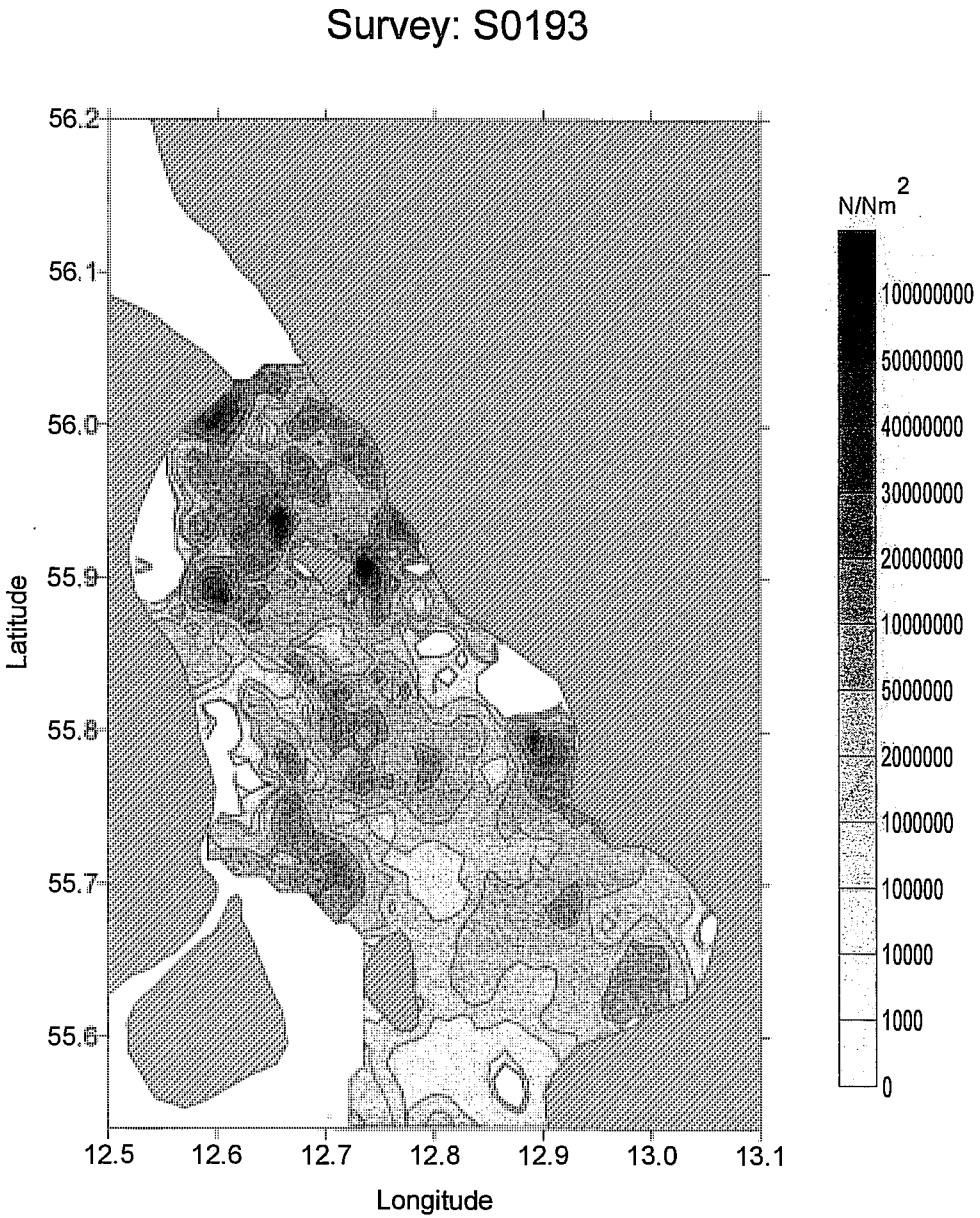

Figure 4. Herring in the Sound in number per square nuatical mile (N/Nm^2)

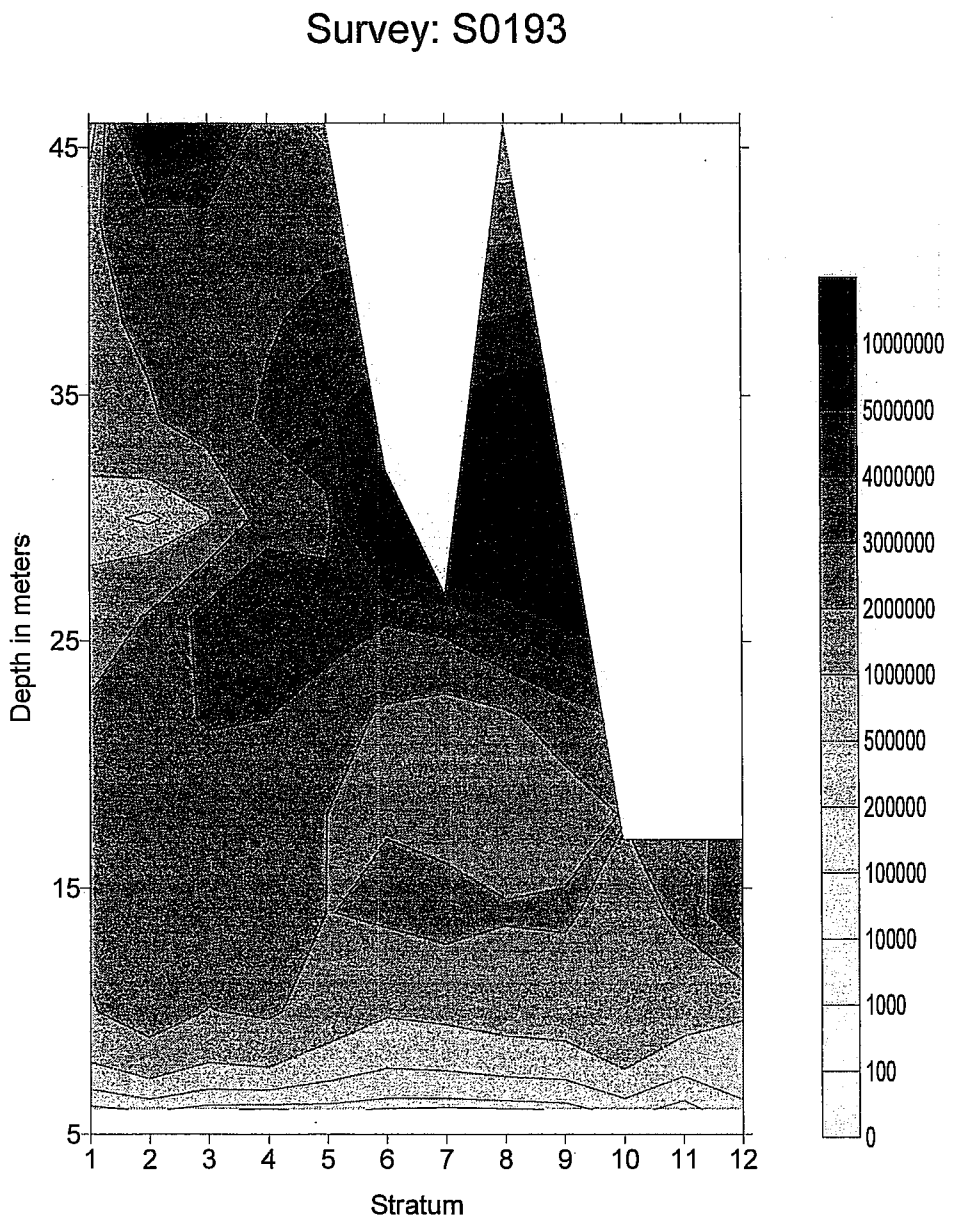

Figure 5. Number of herring by geographical stratum and depth strata in the Sound

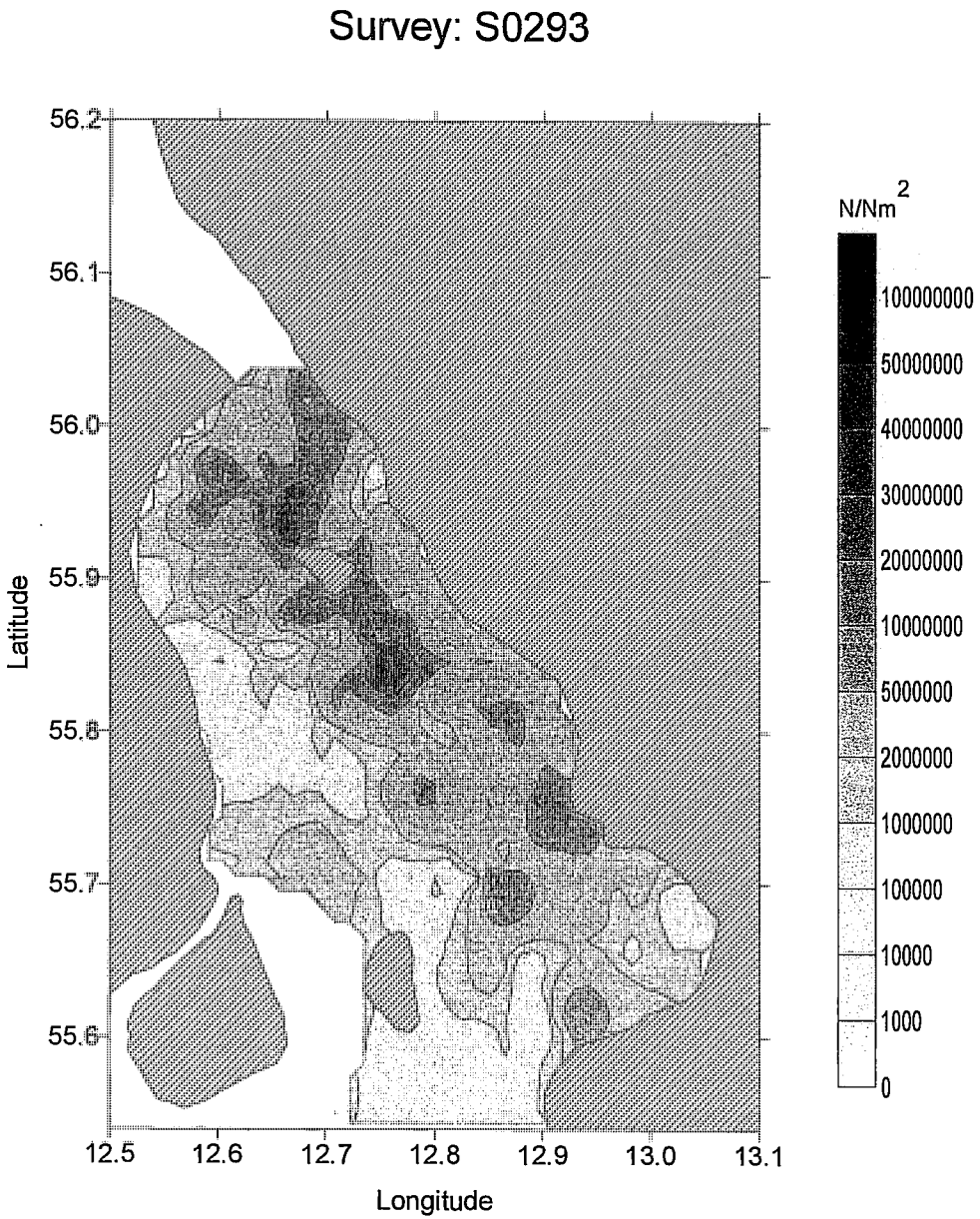

Figure 6. Herring in the Sound in number per square nuatical mile (N/Nm^2)

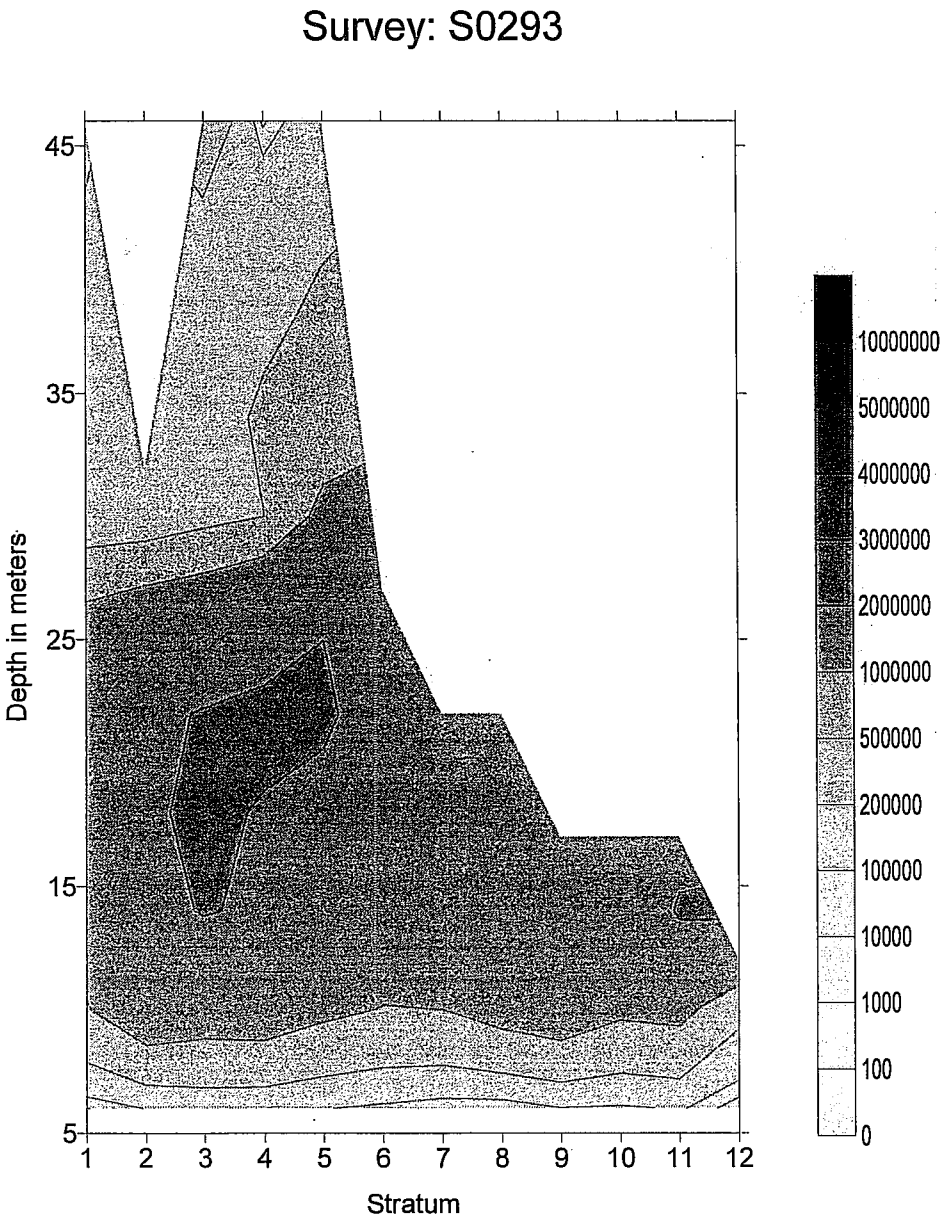

Figure 7. Number of herring by geographical stratum and depth strata in the Sound

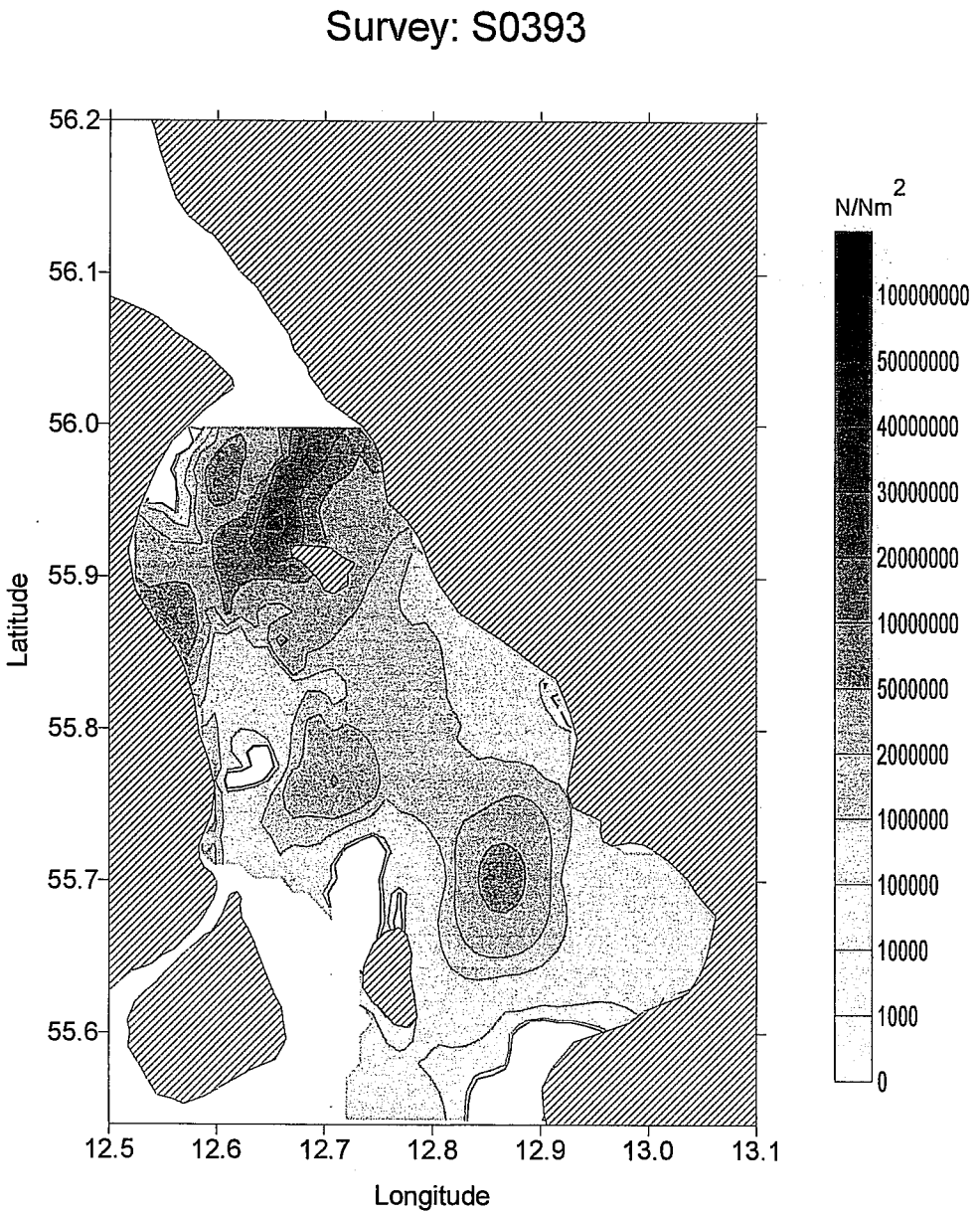

Figure 8. Herring in the Sound in number per square nuatical mile (N/Nm^2)

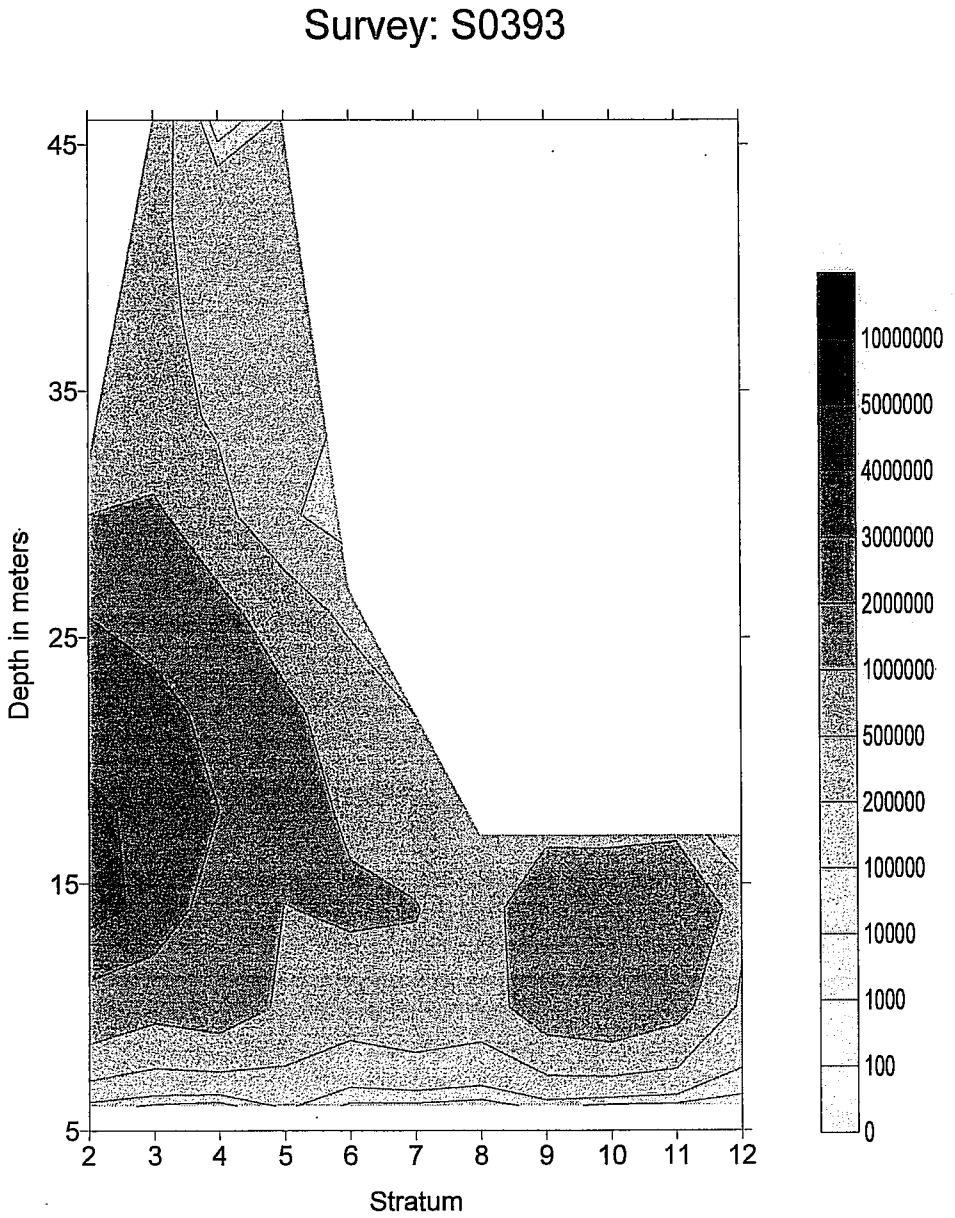

Figure 9. Number of herring by geographical stratum and depth strata in the Sound

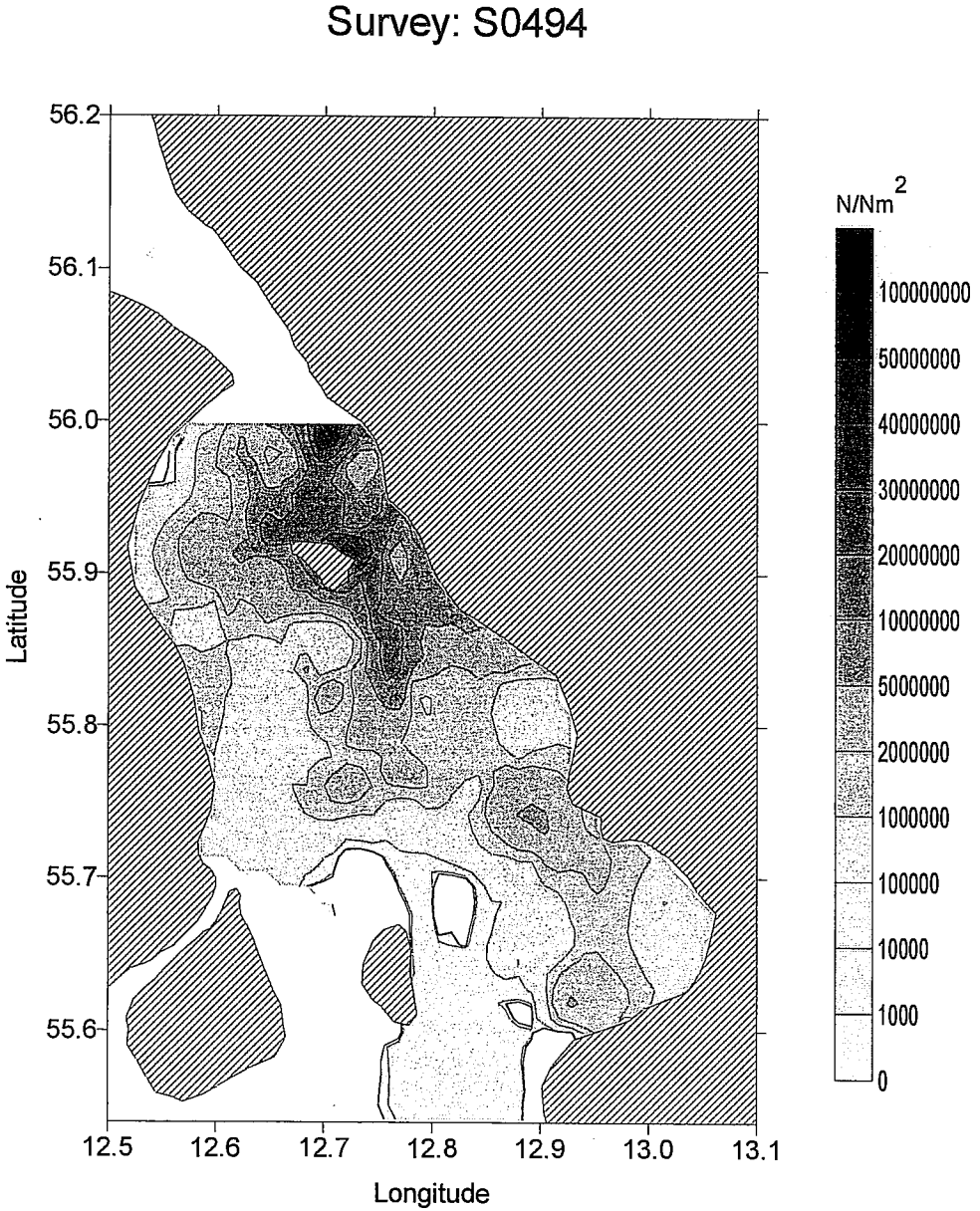

Figure 10. Herring in the Sound in number per square nuatical mile (N/Nm^2)

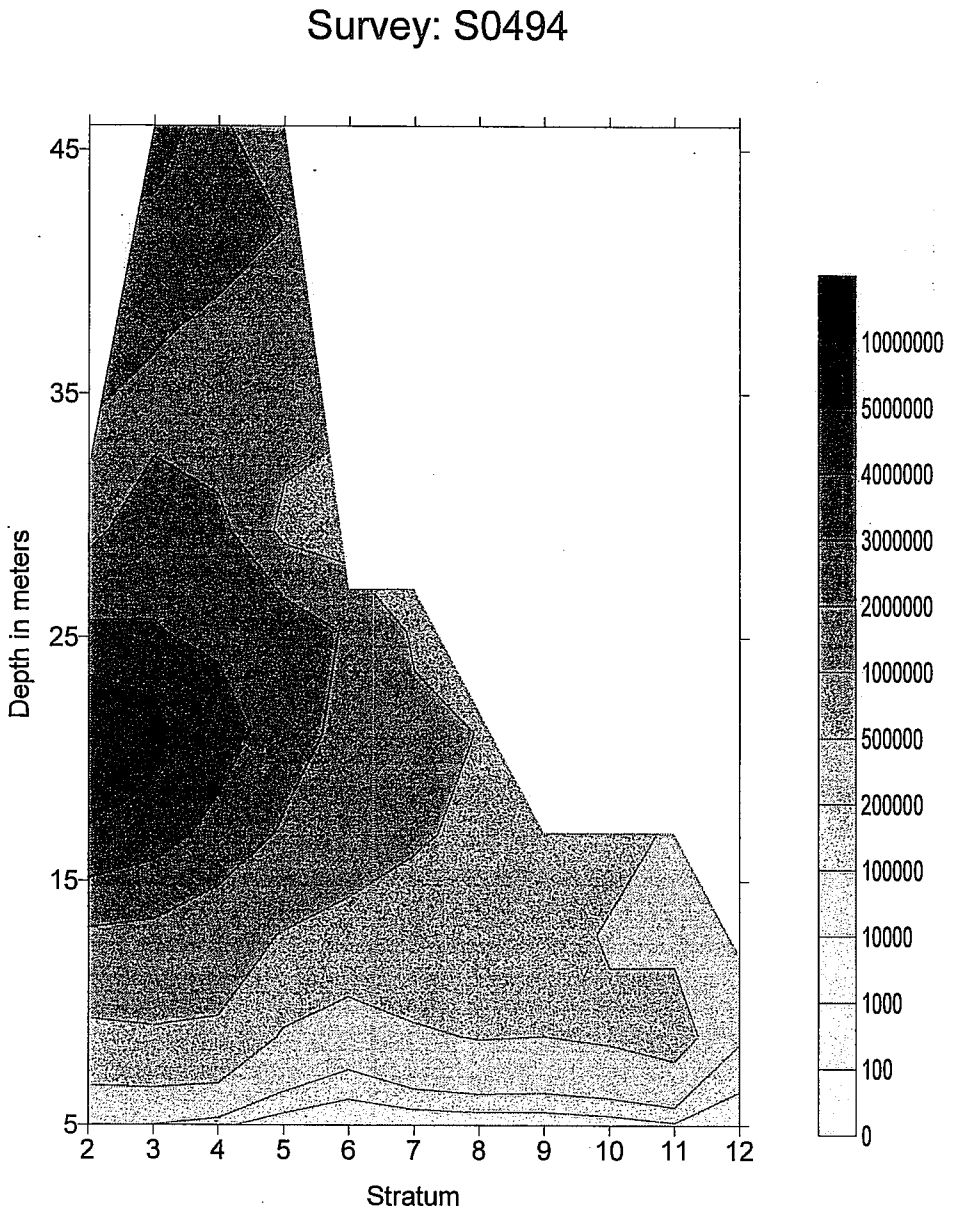

Figure 11. Number of herring by geographical stratum and depth strata in the Sound

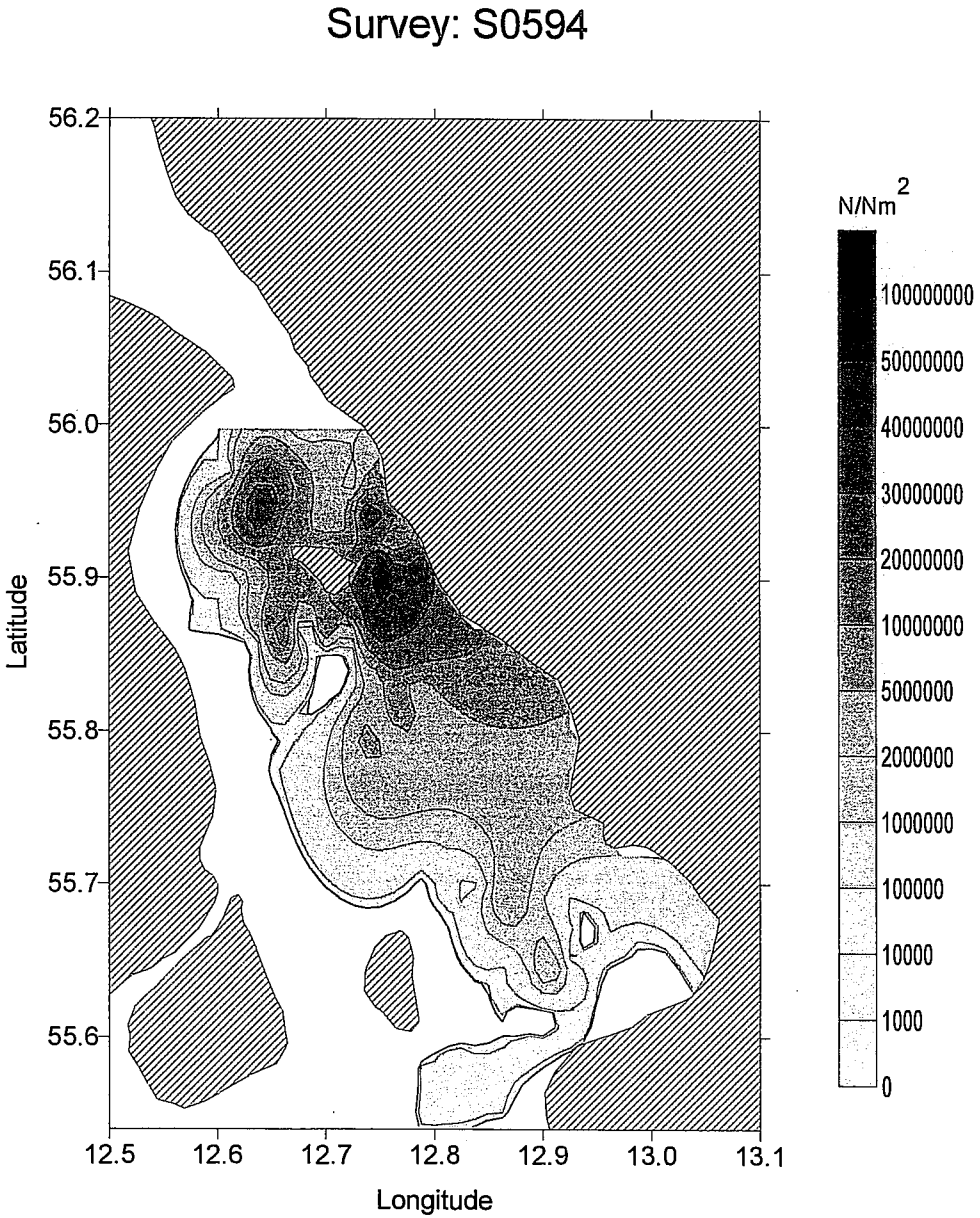

Figure 12. Herring in the Sound in number per square nuatical mile (N/Nm^2)

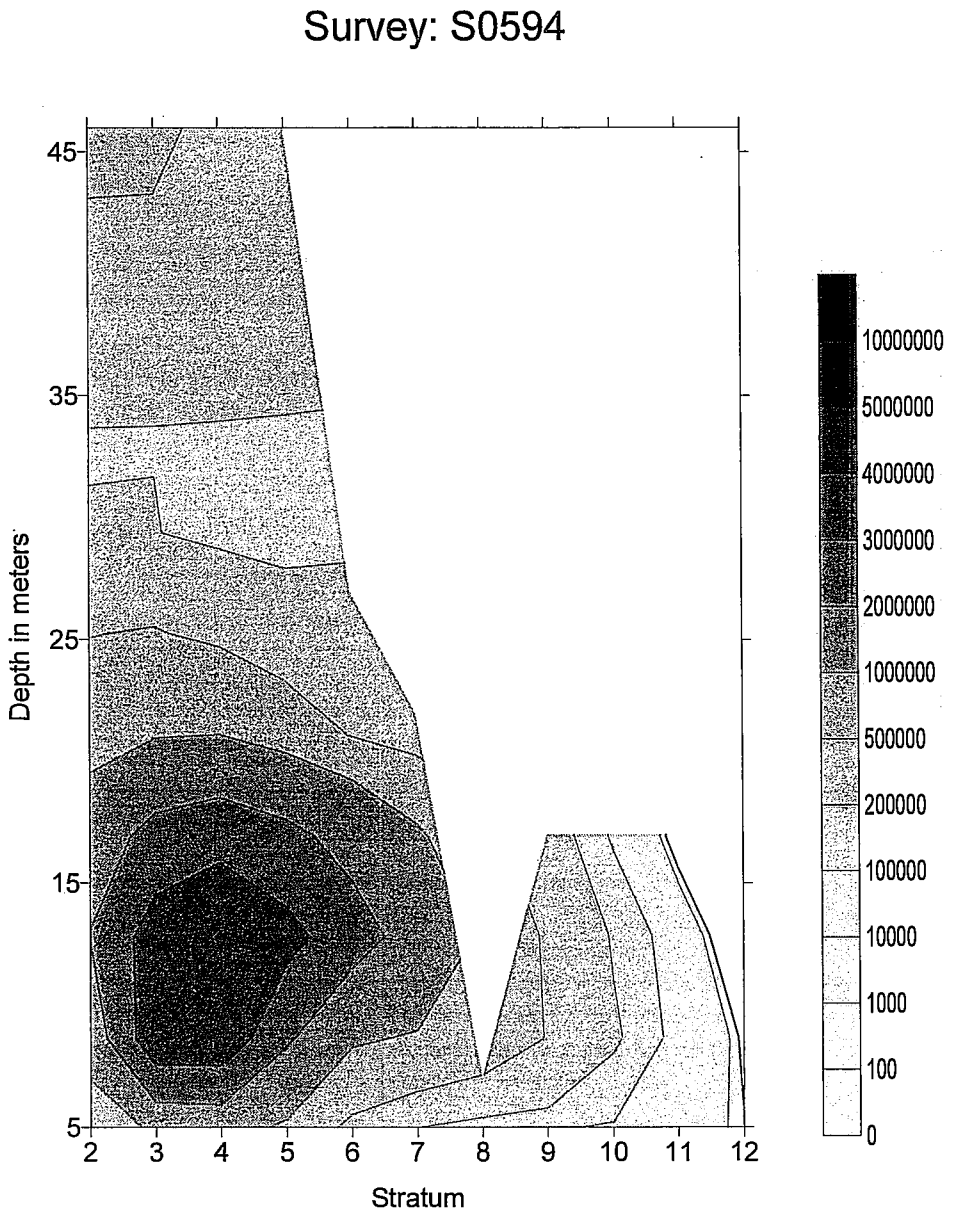

Figure 13. Number of herring by geographical stratum and depth strata in the Sound

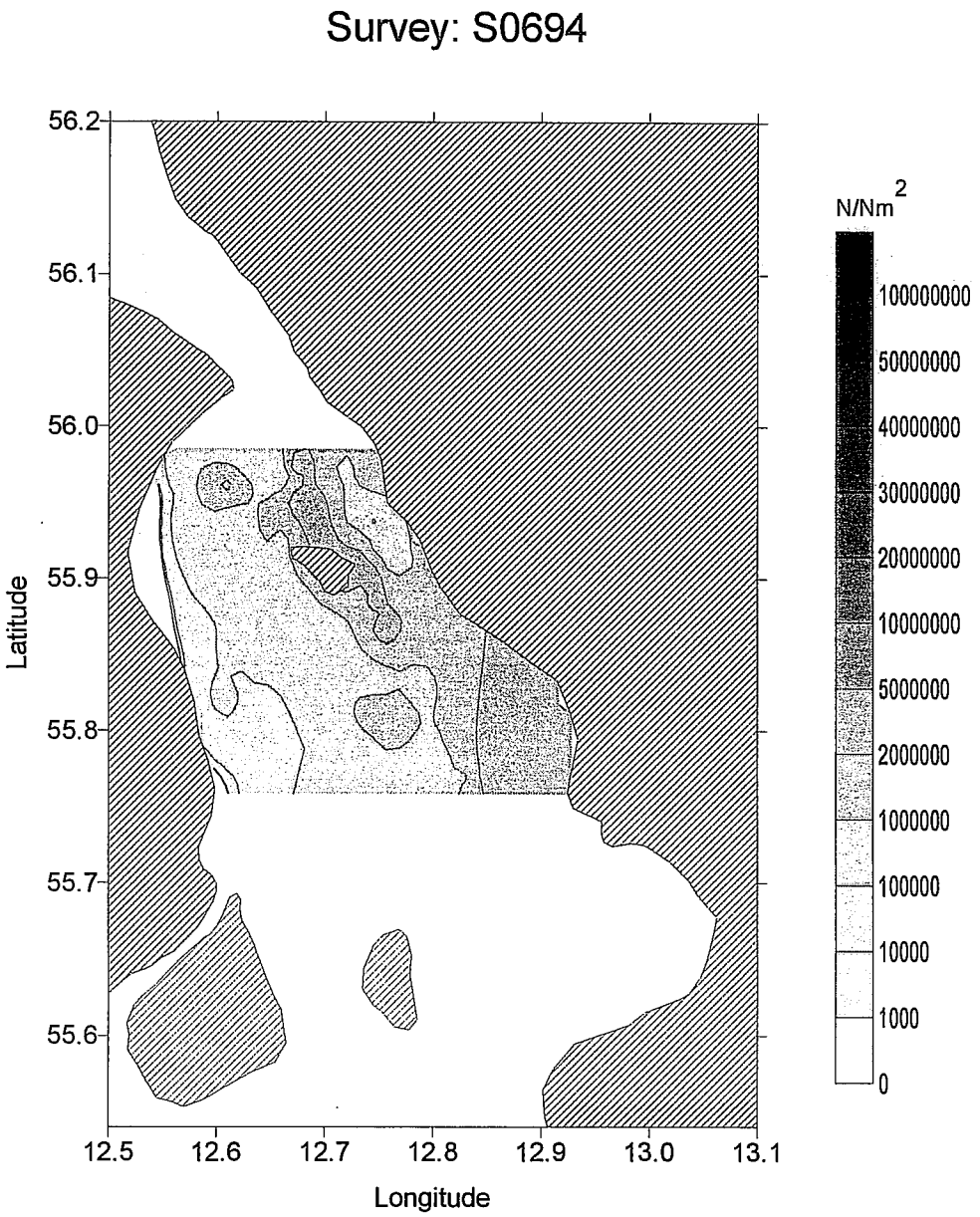

Figure 14. Herring in the Sound in number per square nuatical mile (N/Nm^2)

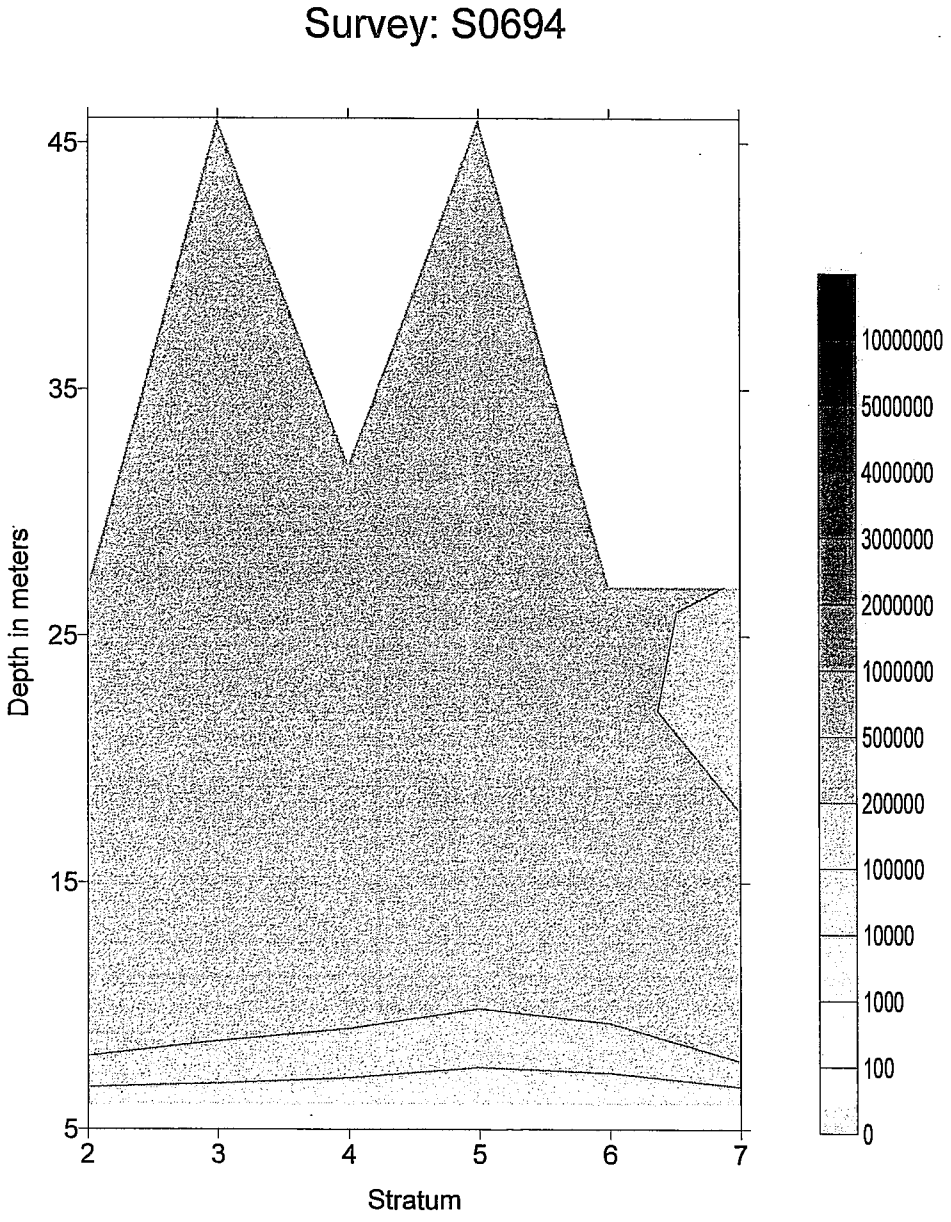

Figure 15. Number of herring by geographical stratum and depth strata in the Sound

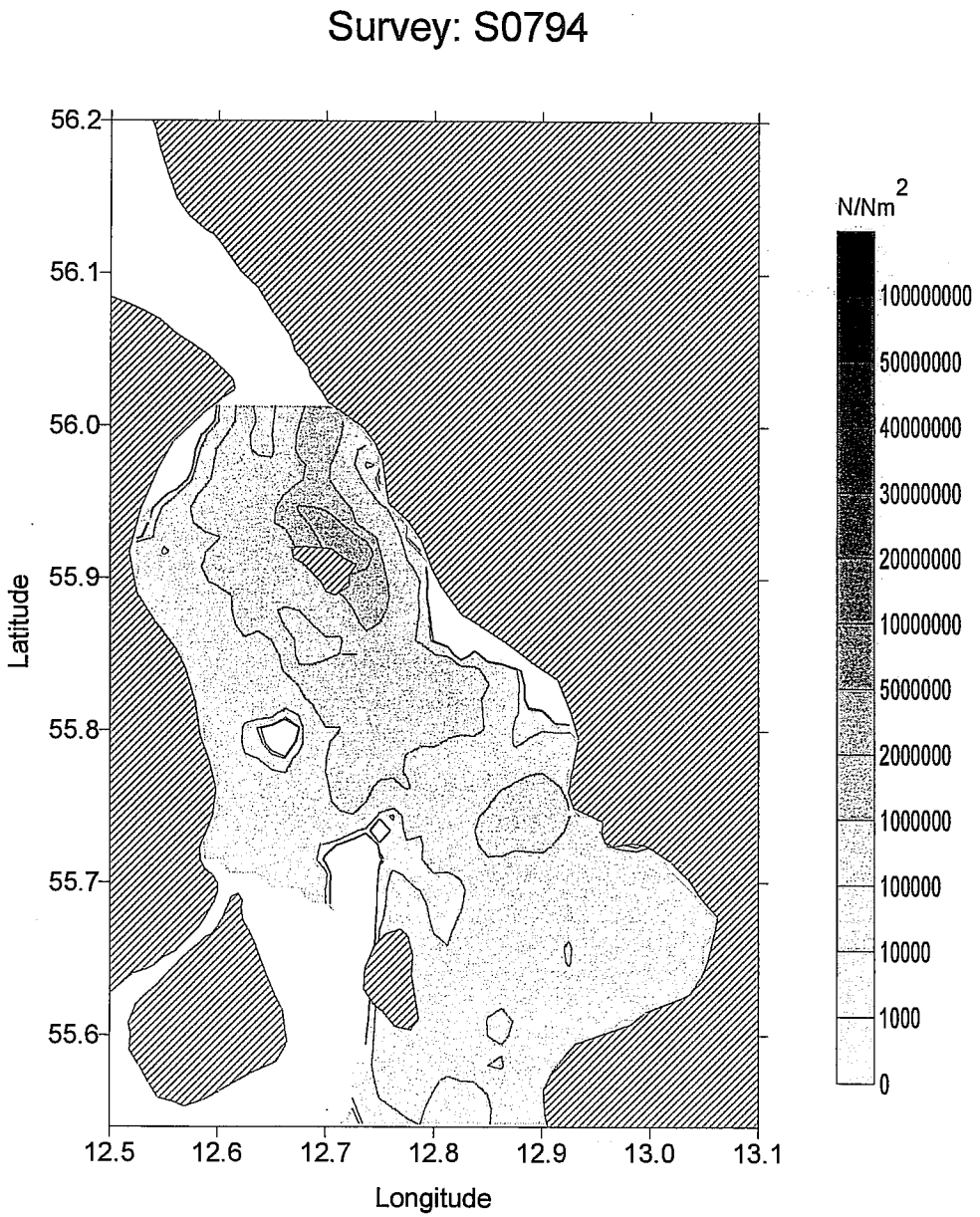

Figure 16. Herring in the Sound in number per square nuatical mile (N/Nm^2)

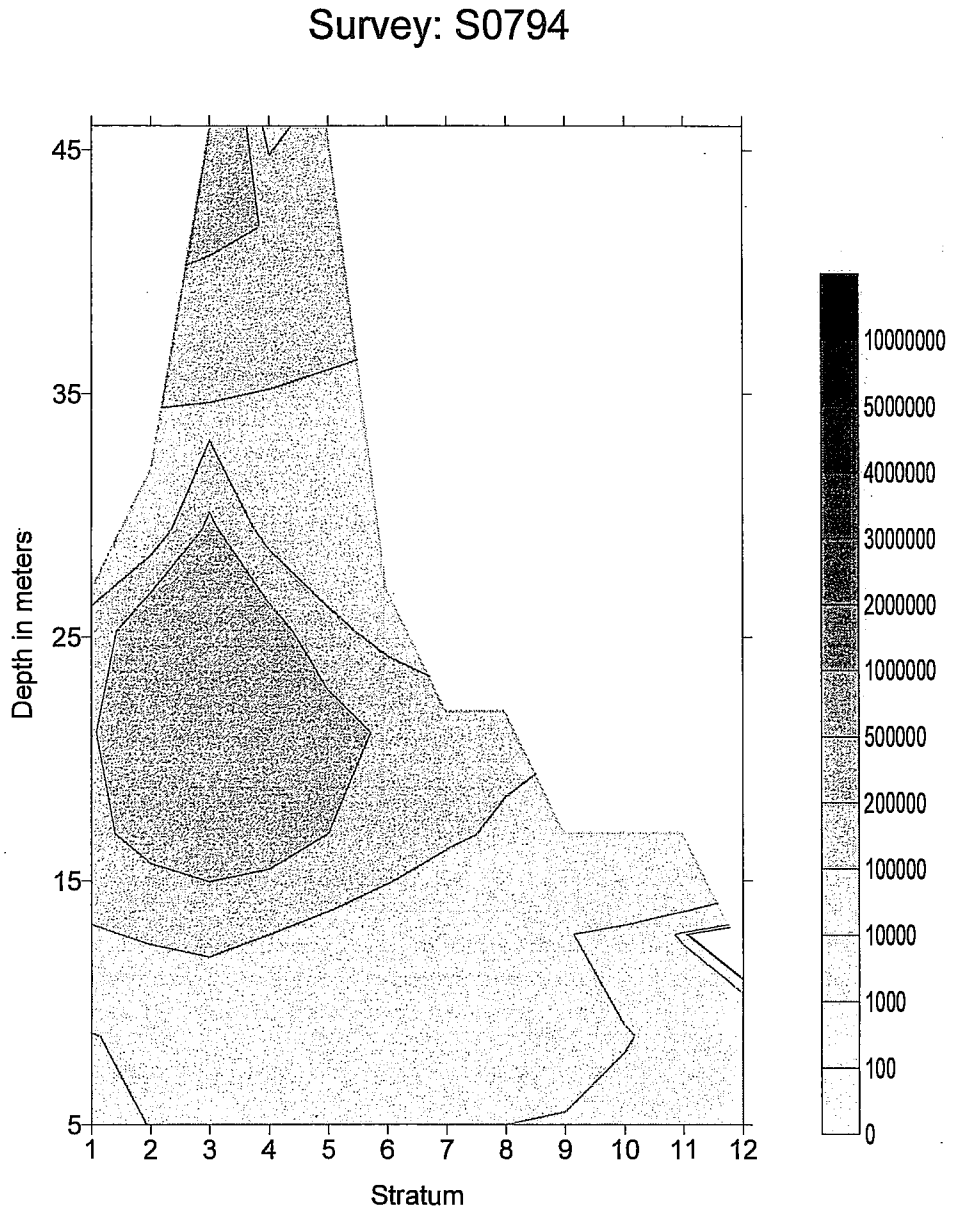

Figure 17. Number of herring by geographical stratum and depth strata in the Sound

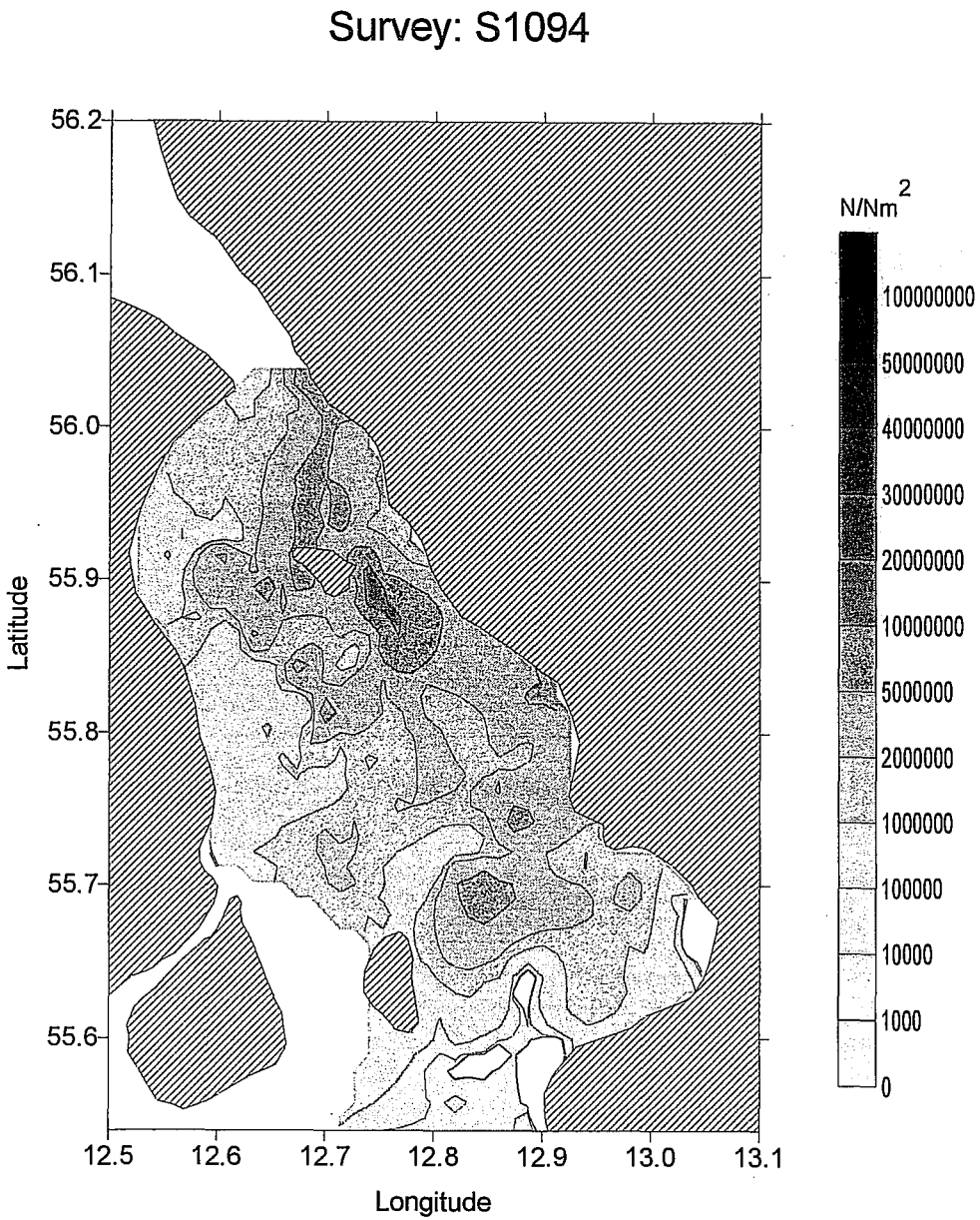

Figure 18. Herring in the Sound in number per square nuatical mile (N/Nm^2)

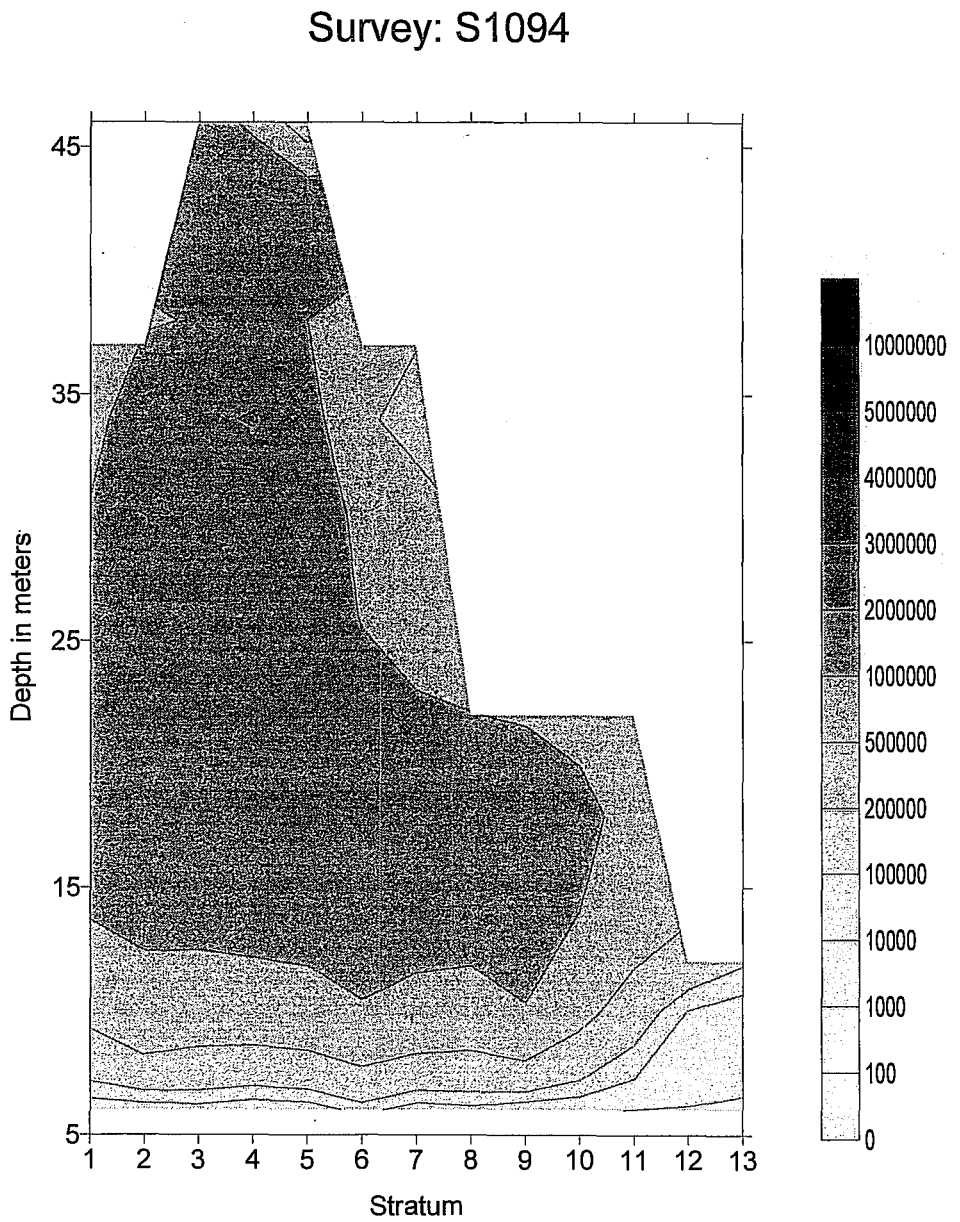

Figure 19. Number of herring by geographical stratum and depth strata in the Sound

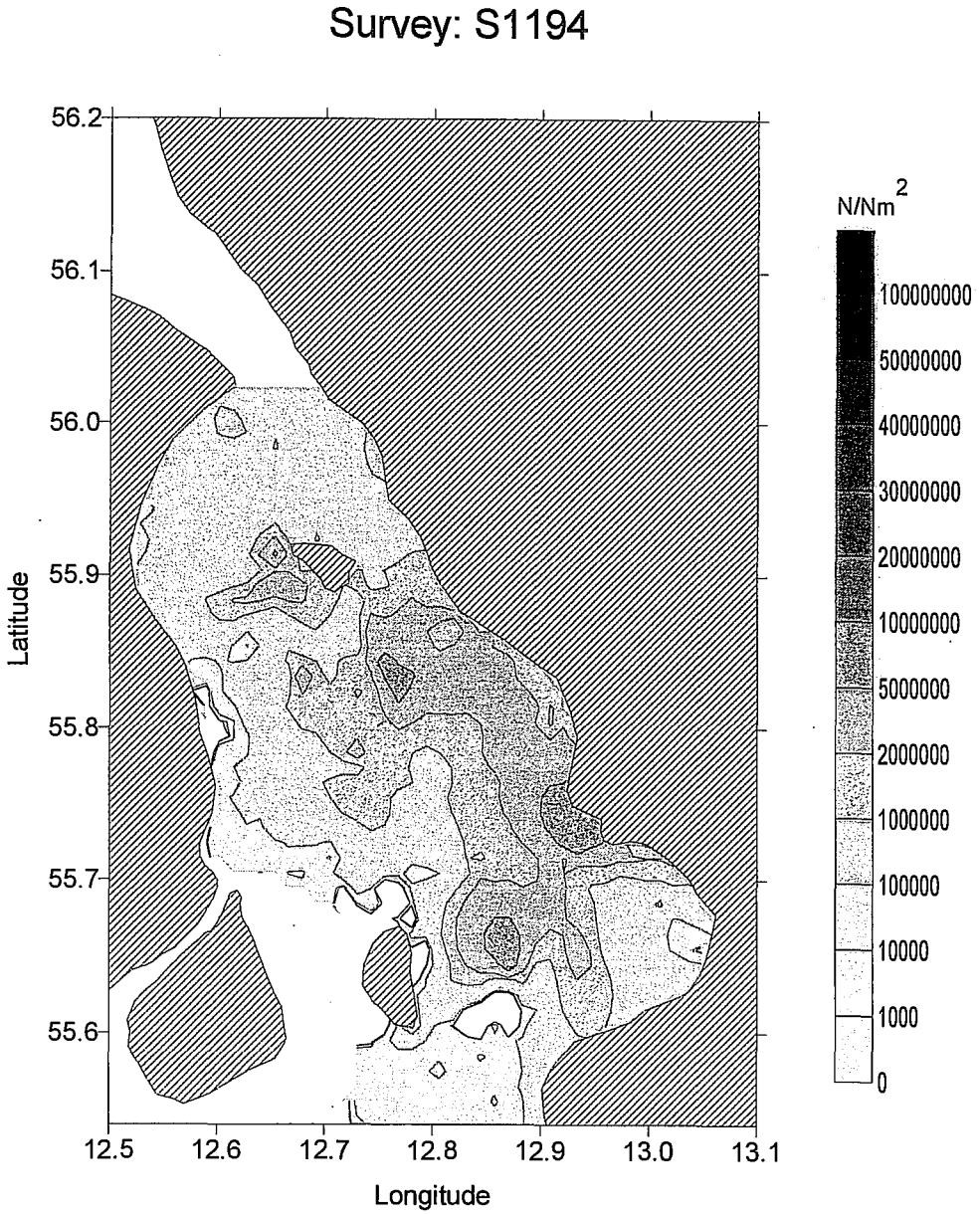

Figure 20. Herring in the Sound in number per square nuatical mile (N/Nm^2)

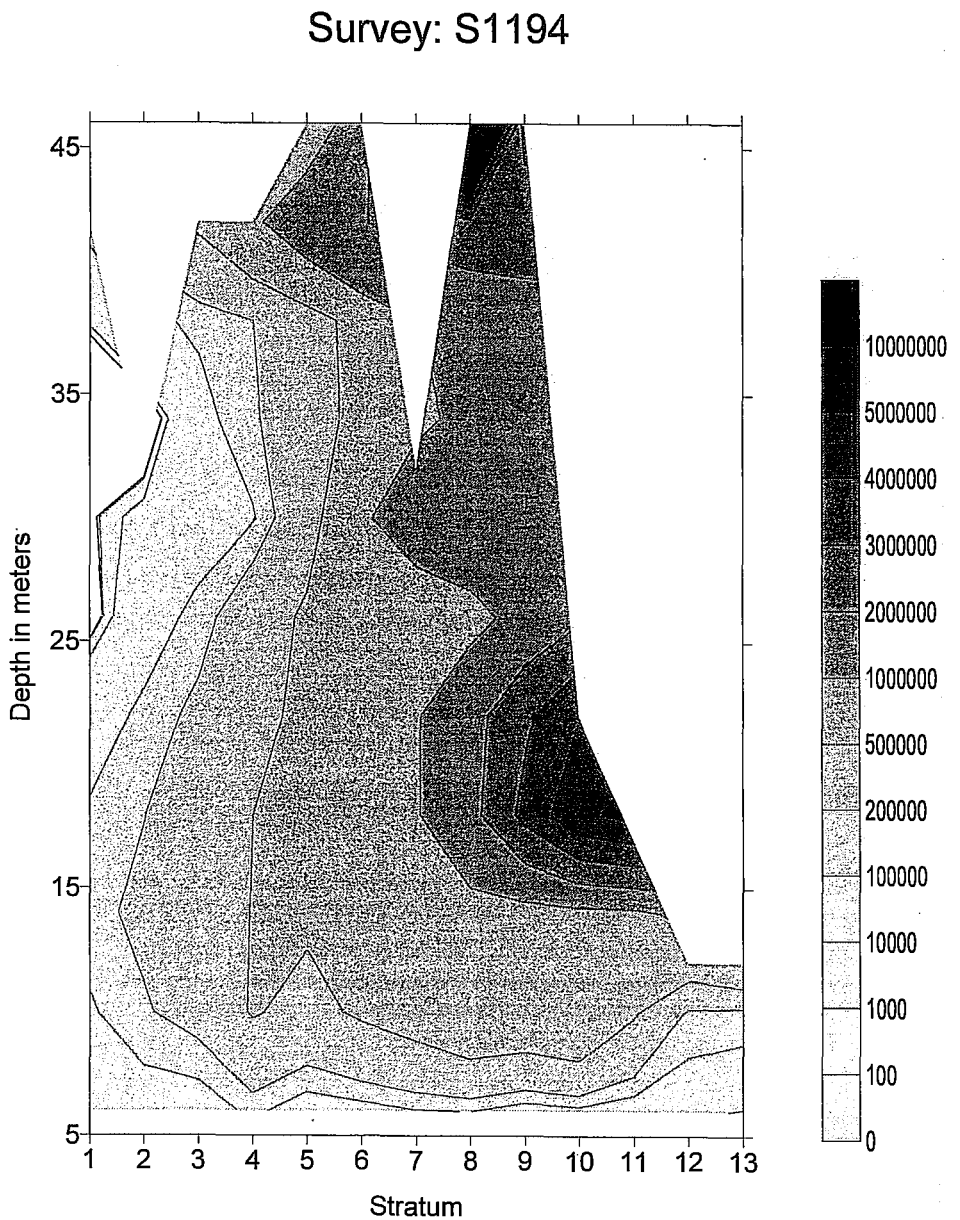

Figure 21. Number of herring by geographical stratum and depth strata in the Sound

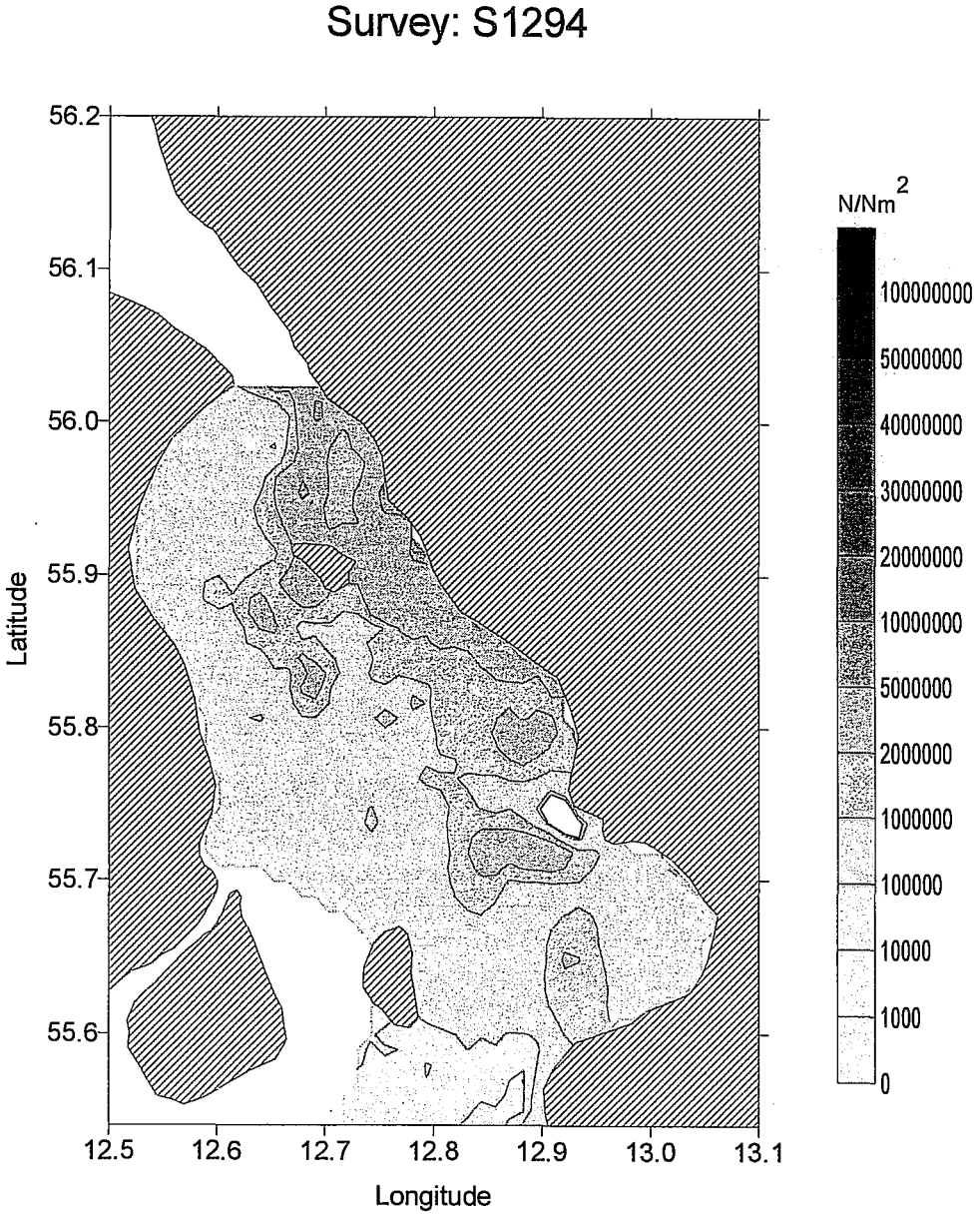

Figure 22. Herring in the Sound in number per square nuatical mile (N/Nm^2)

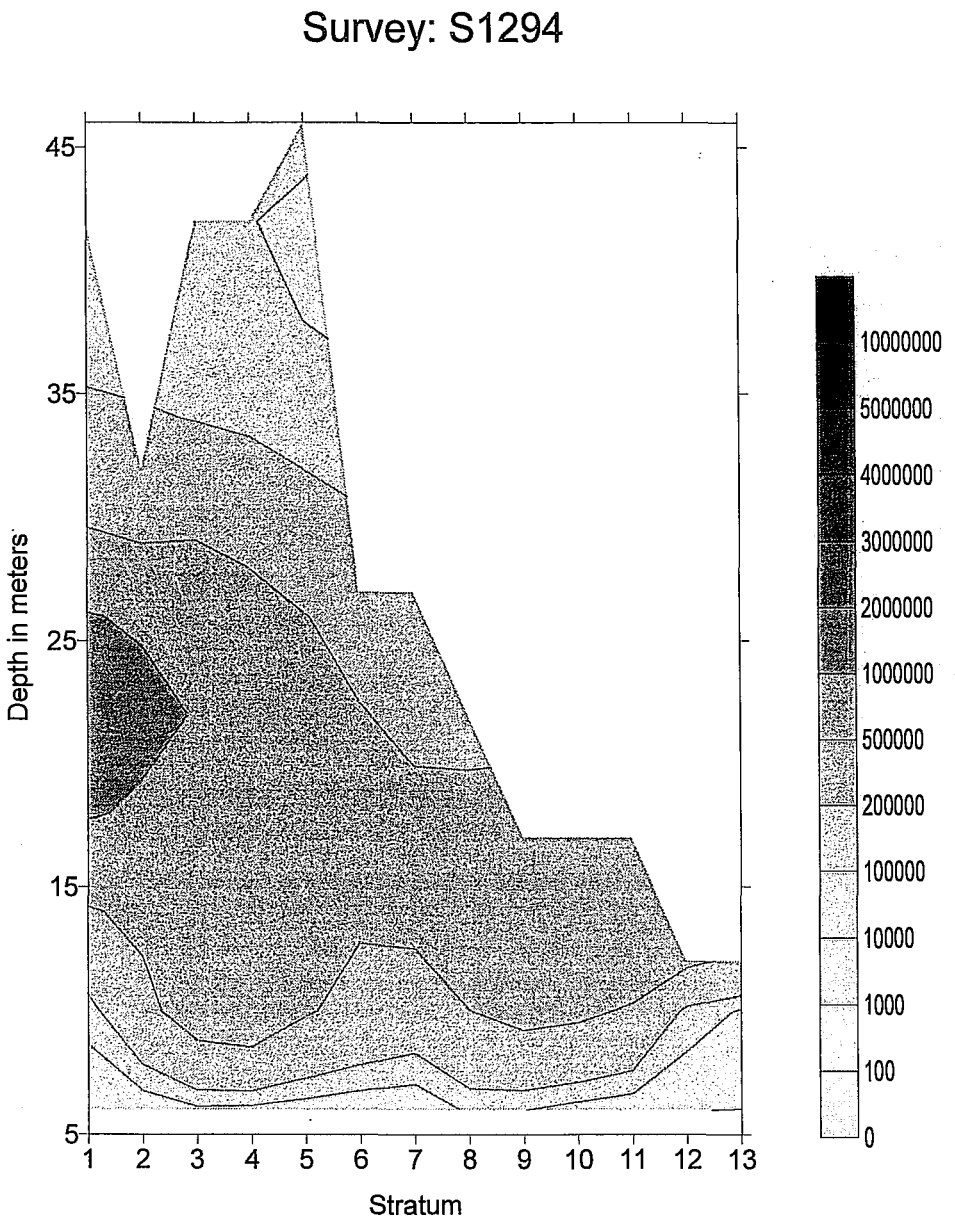

Figure 23. Number of herring by geographical stratum and depth strata in the Sound

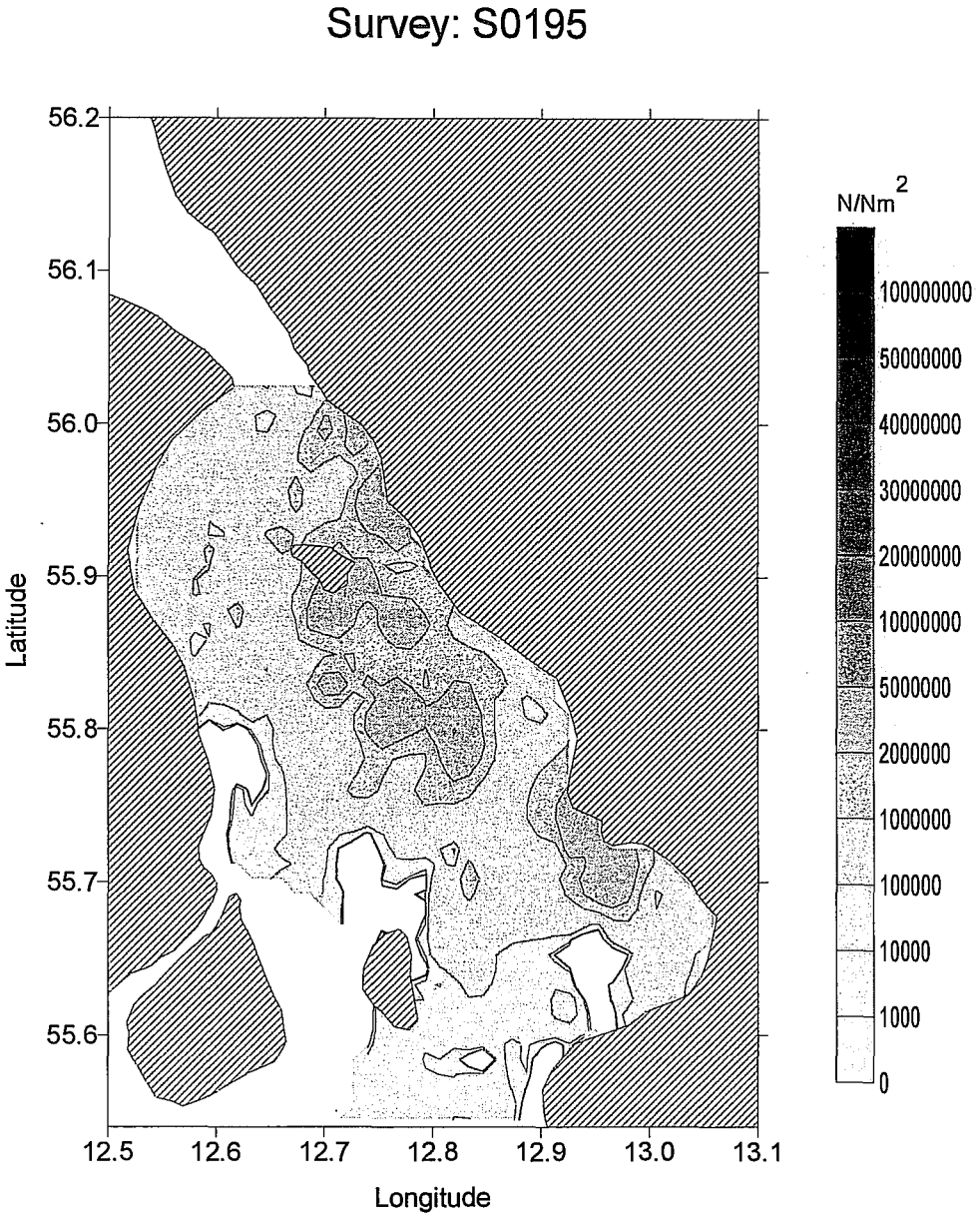

Figure 24. Herring in the Sound in number per square nuatical mile (N/Nm^2)

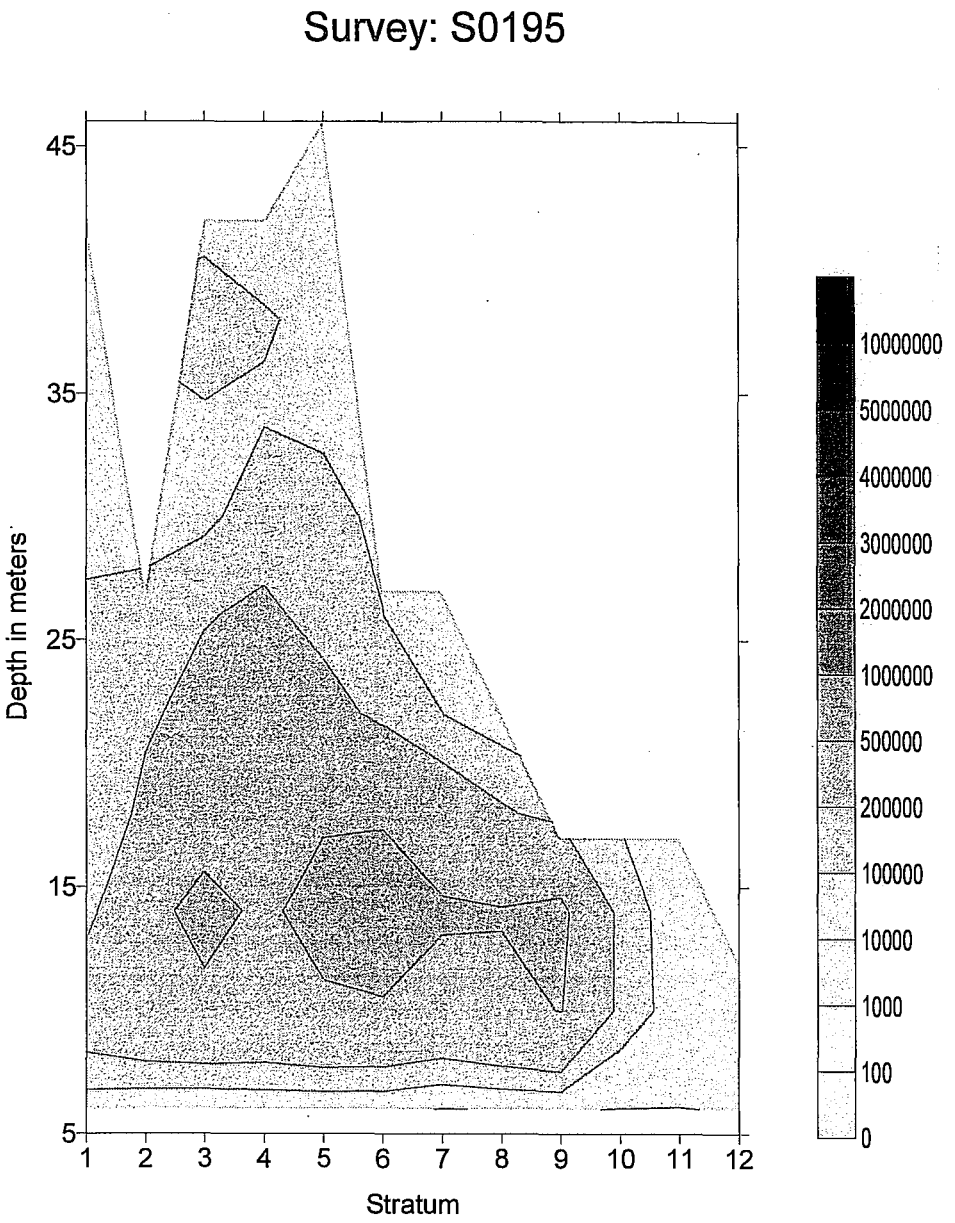

Figure 25. Number of herring by geographical stratum and depth strata in the Sound

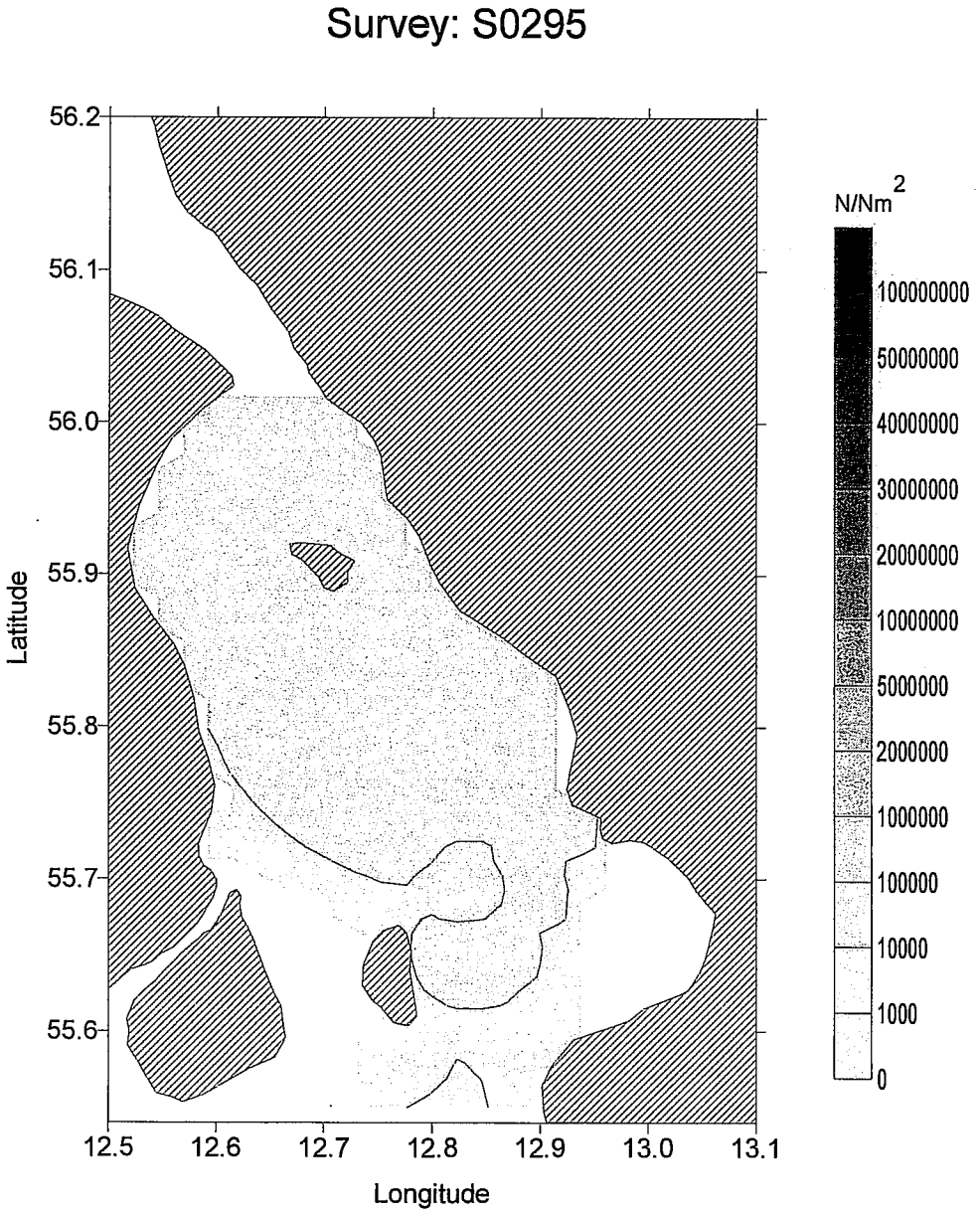

Figure 26. Herring in the Sound in number per square nuatical mile (N/Nm^2)

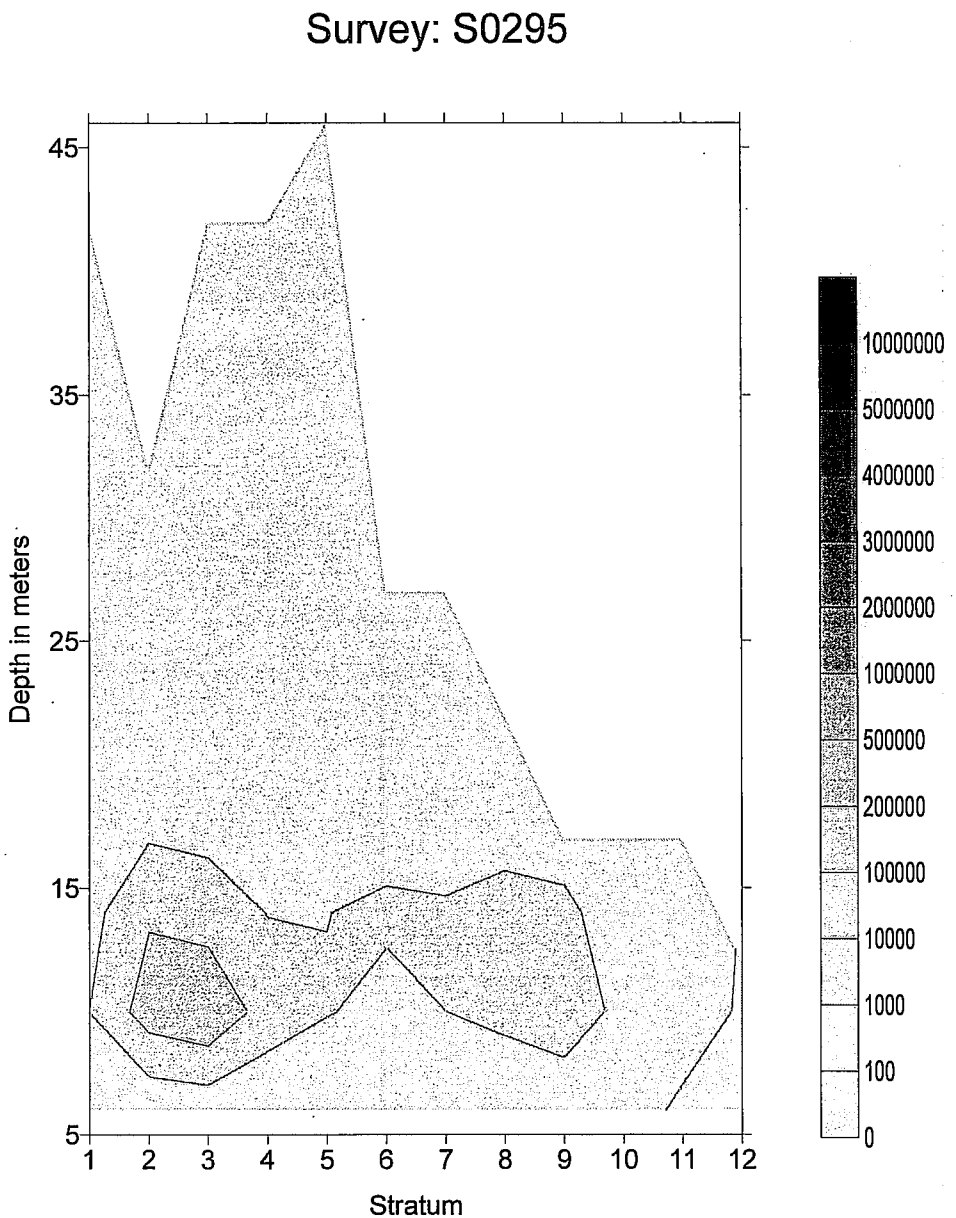

Figure 27. Number of herring by geographical stratum and depth strata in the Sound

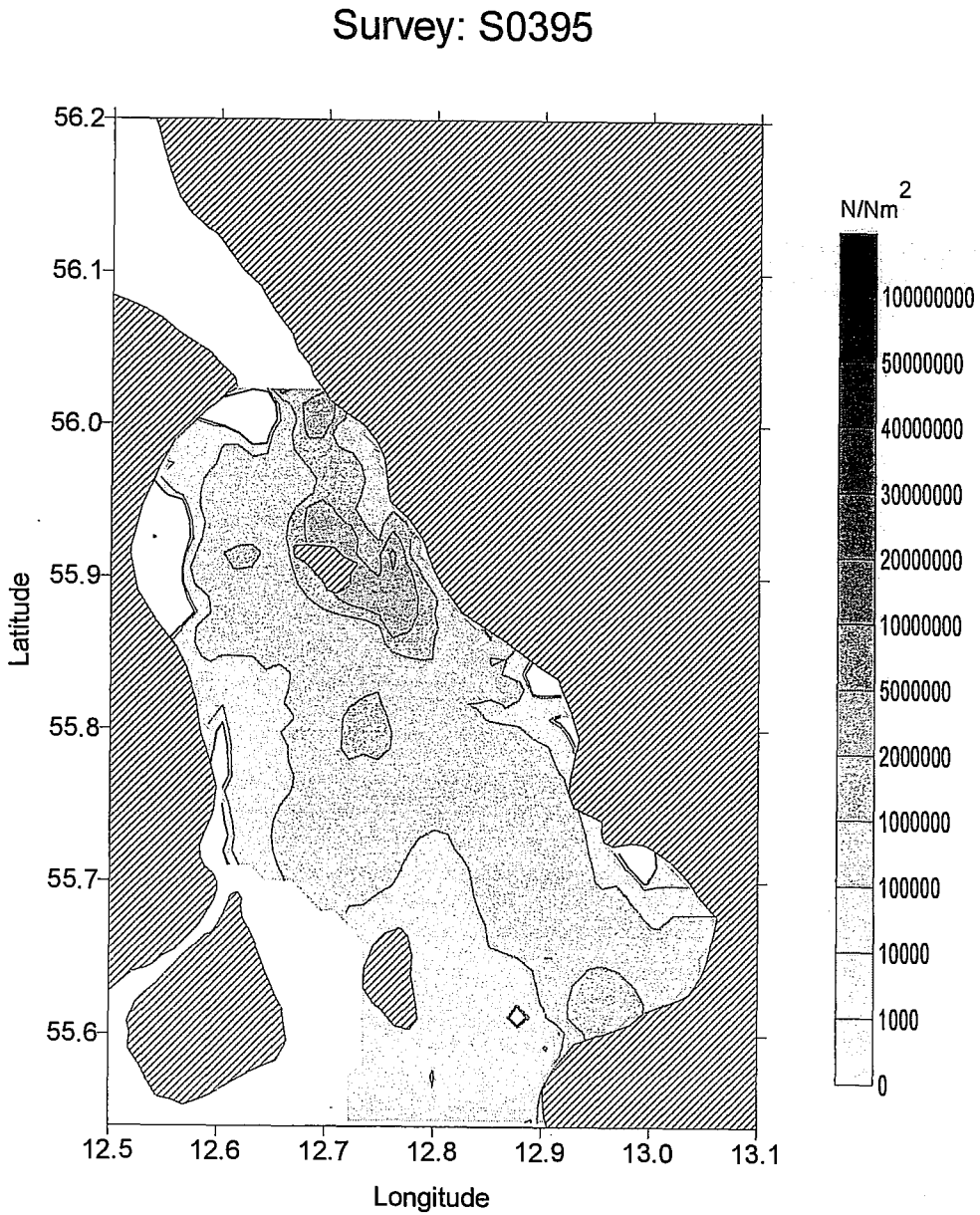

Figure 28. Herring in the Sound in number per square nuatical mile (N/Nm^2)

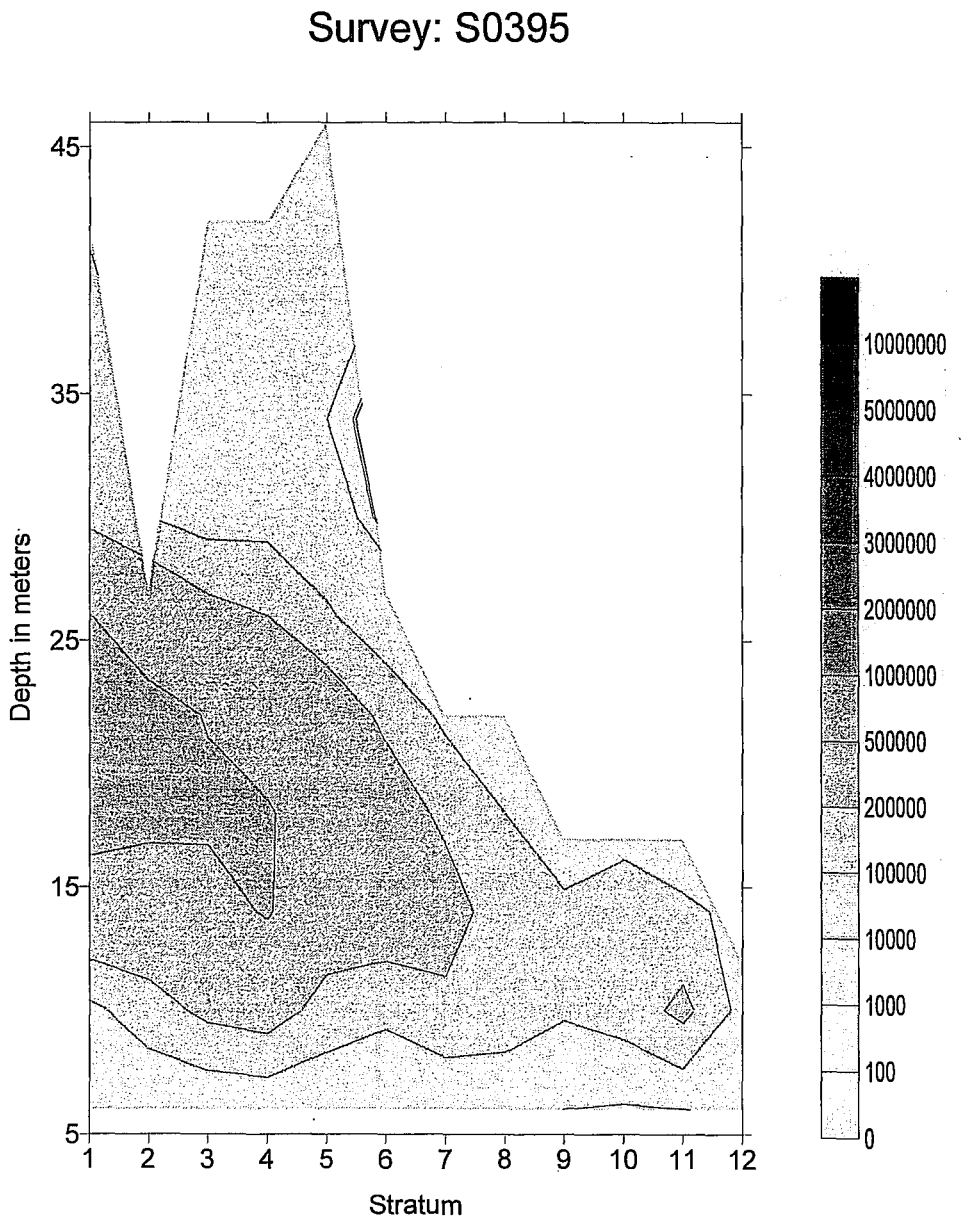

Figure 29. Number of herring by geographical stratum and depth strata in the Sound

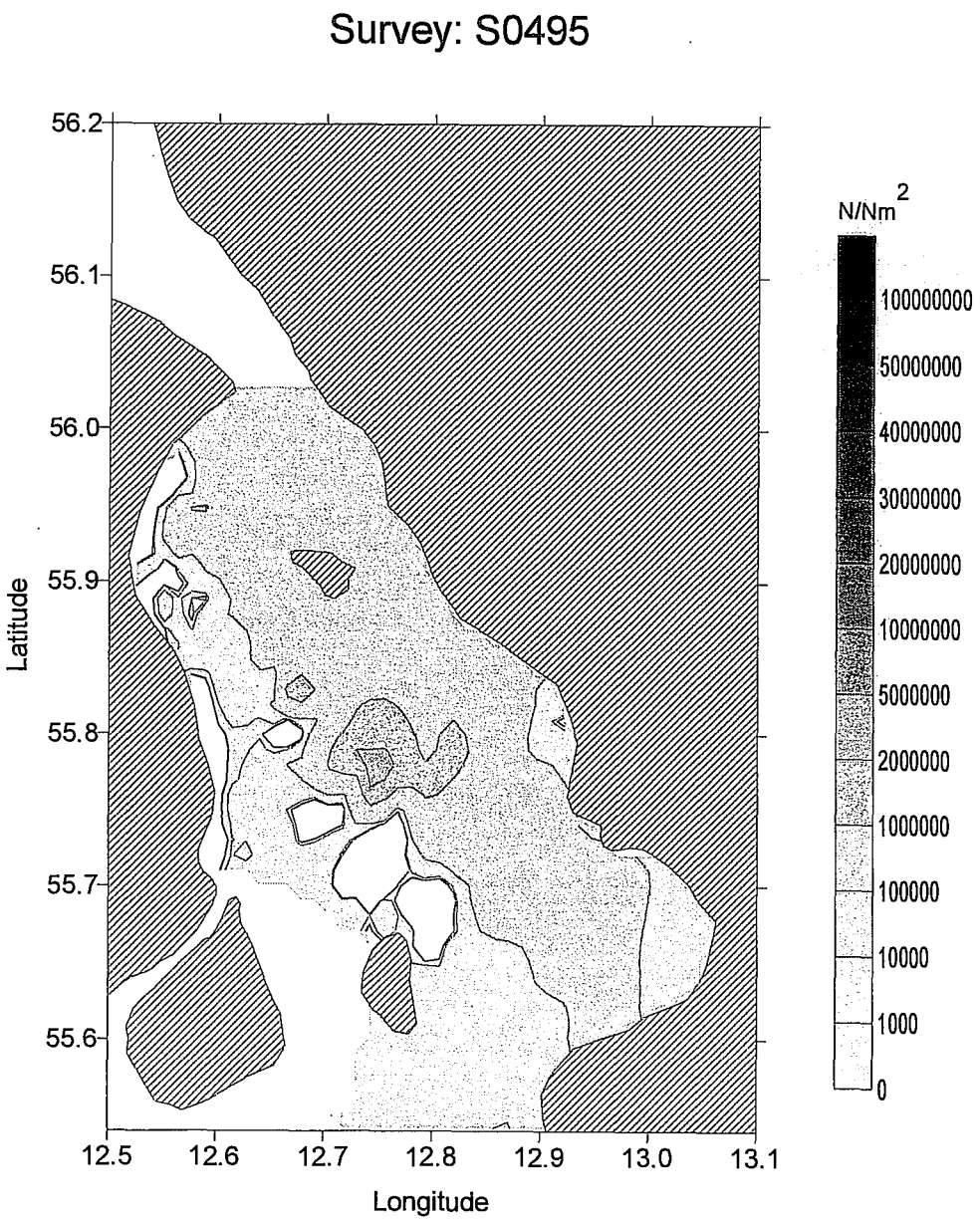

Figure 30. Herring in the Sound in number per square nuatical mile (N/Nm^2)

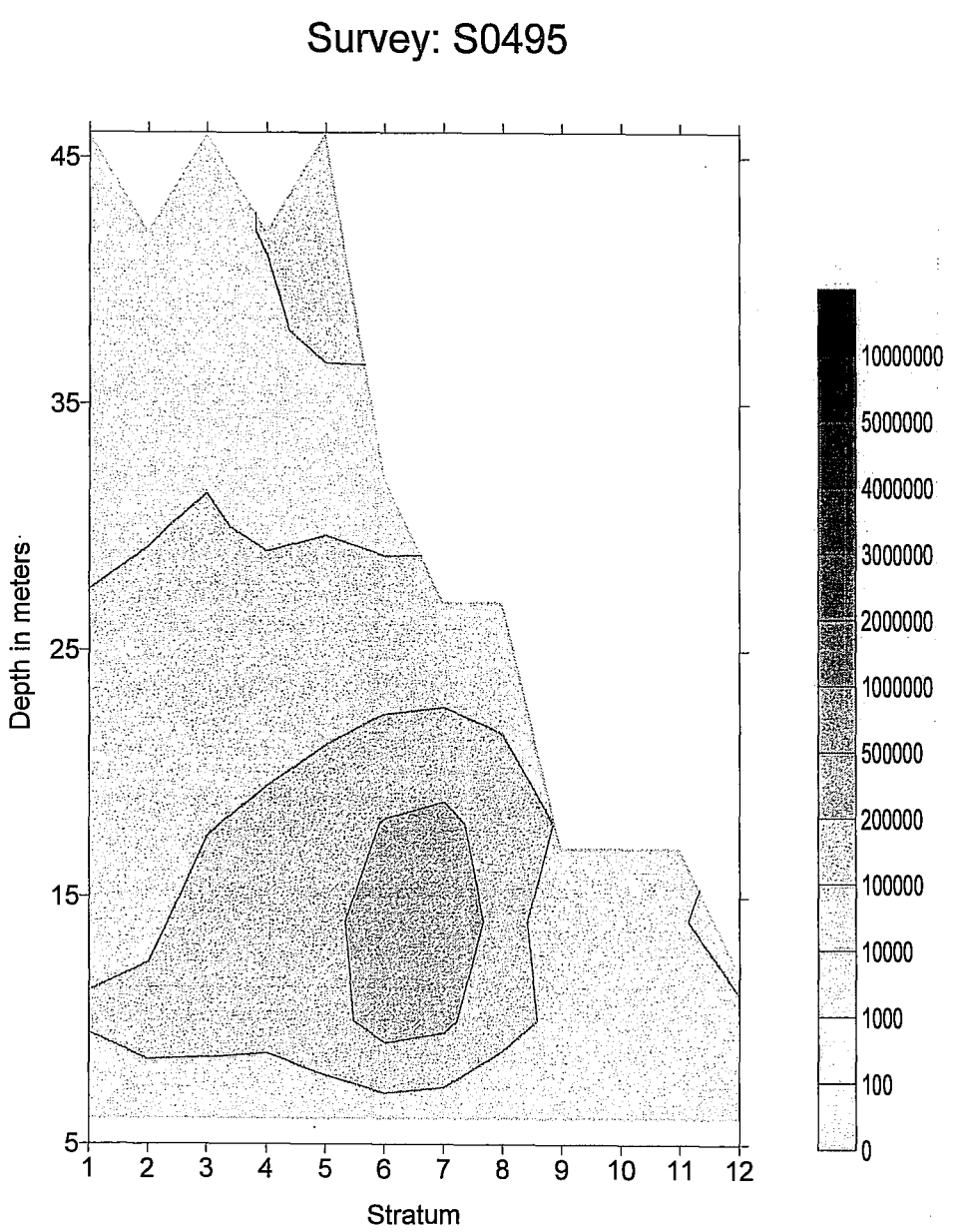

Figure 31. Number of herring by geographical stratum and depth strata in the Sound

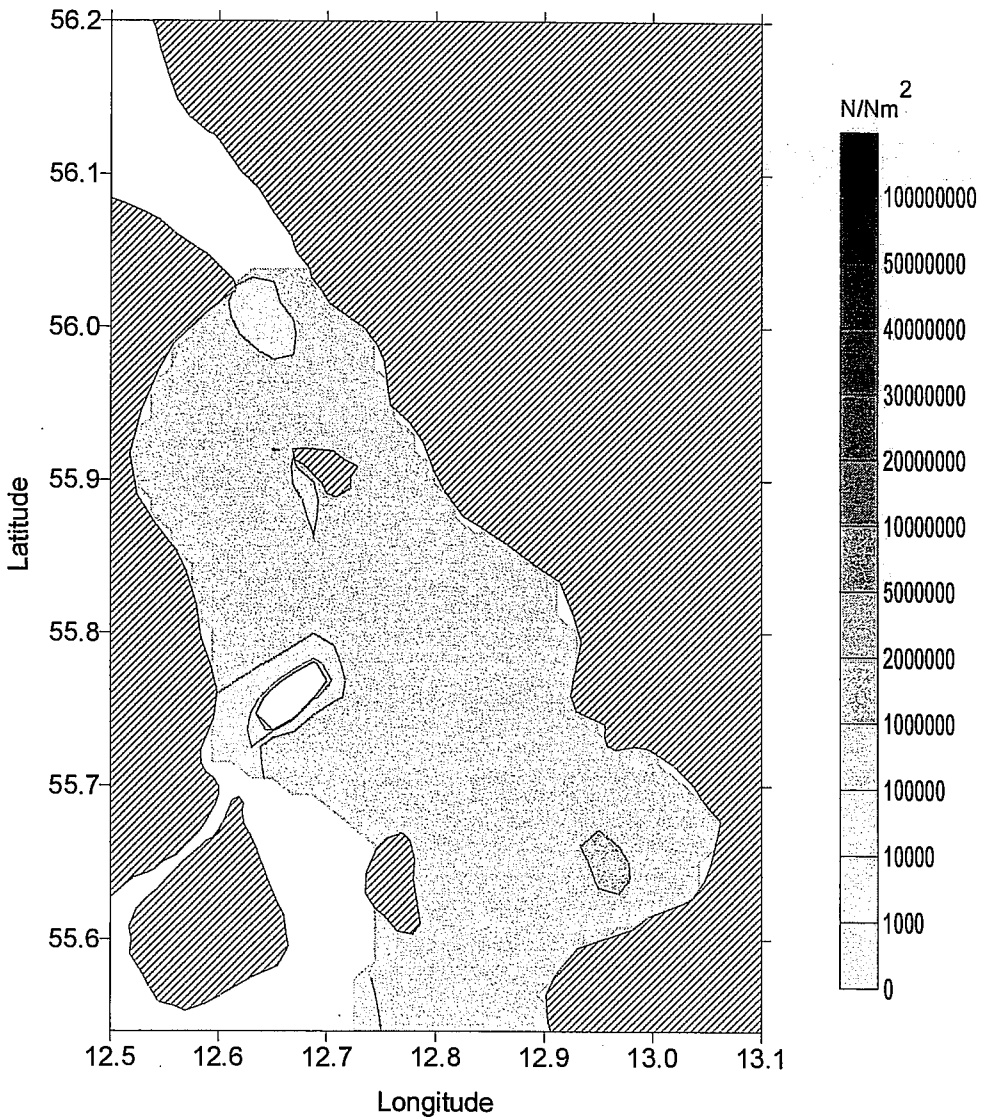

Figure 32. Herring in the Sound in number per square nuatical mile (N/Nm^2)

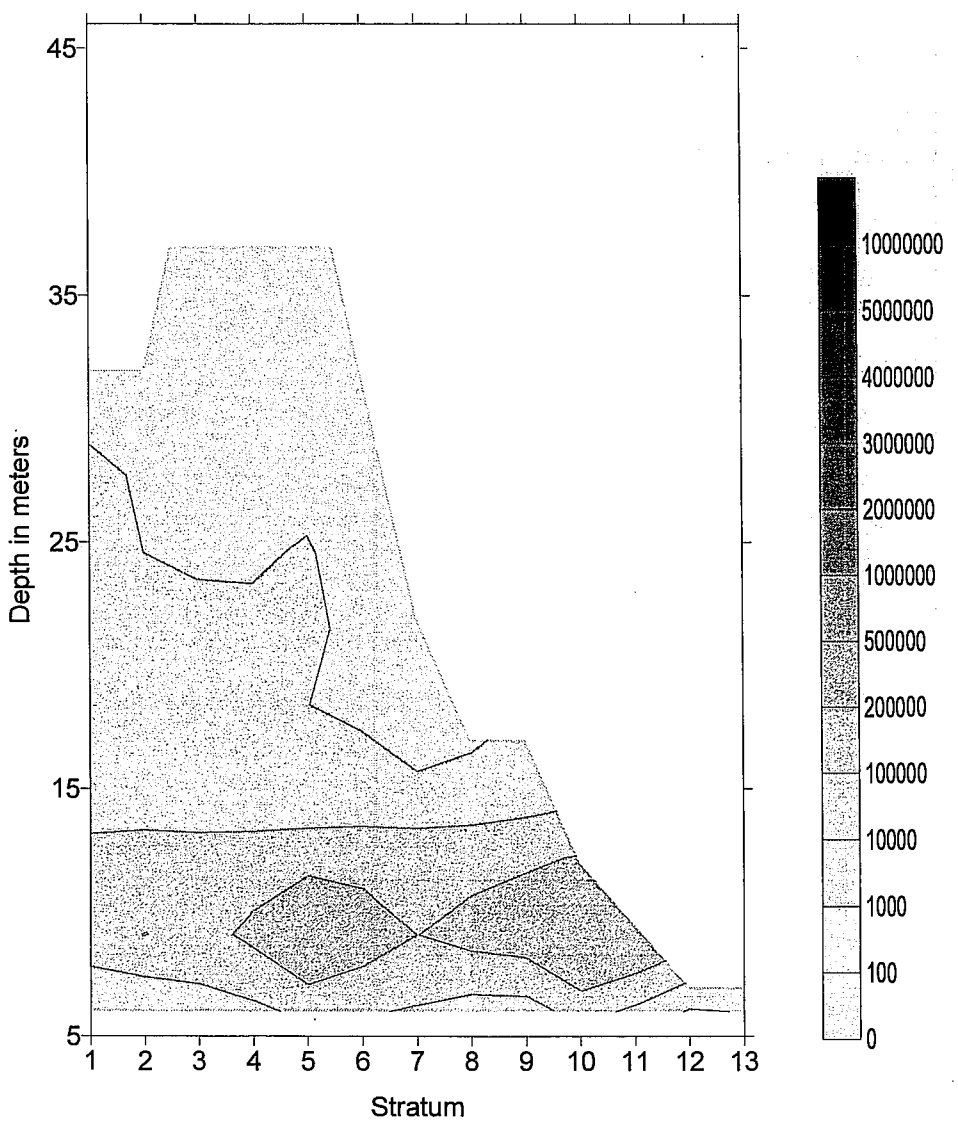

Figure 33. Number of herring by geographical stratum and depth strata in the Sound

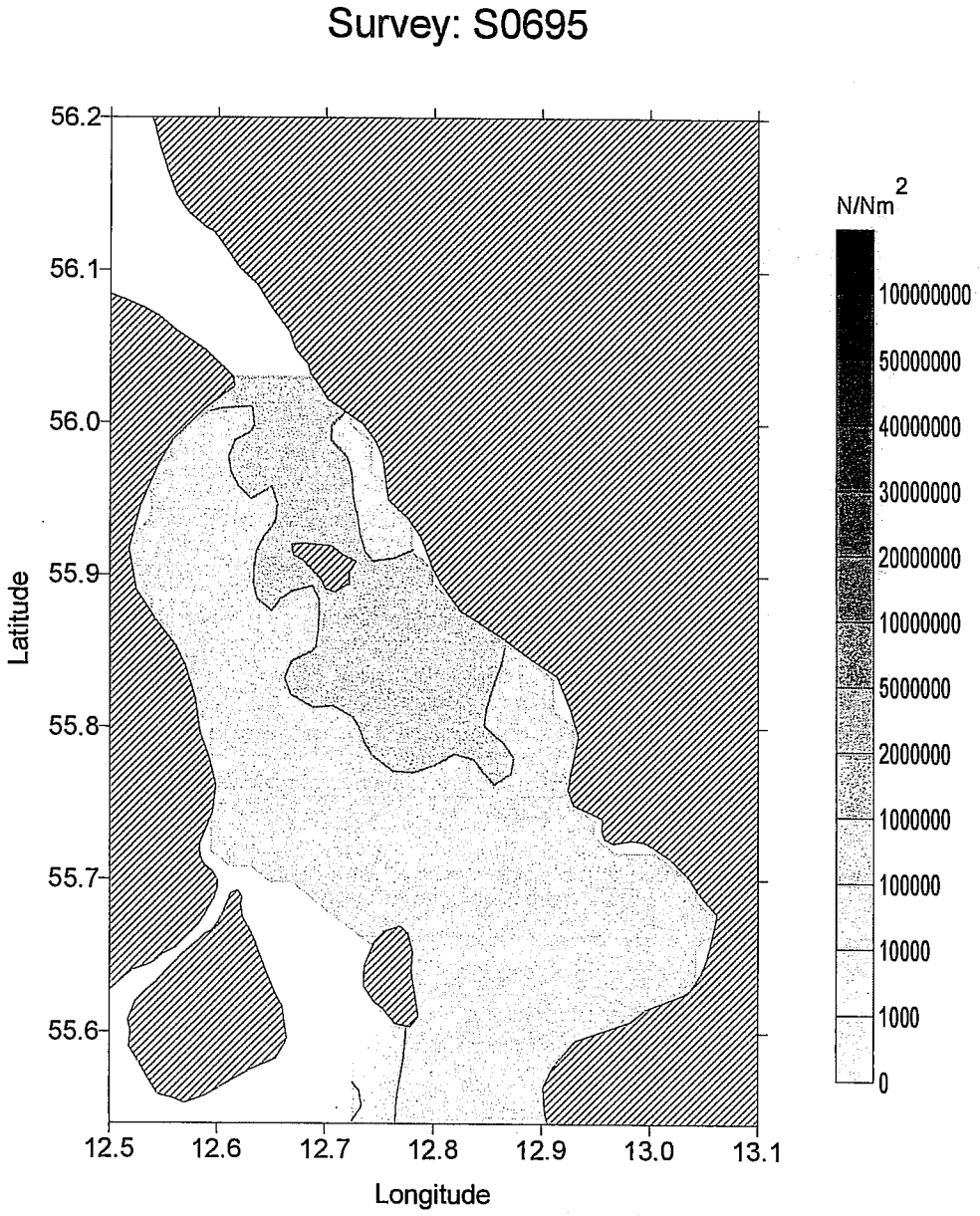

Figure 34. Herring in the Sound in number per square nuatical mile (N/Nm^2)

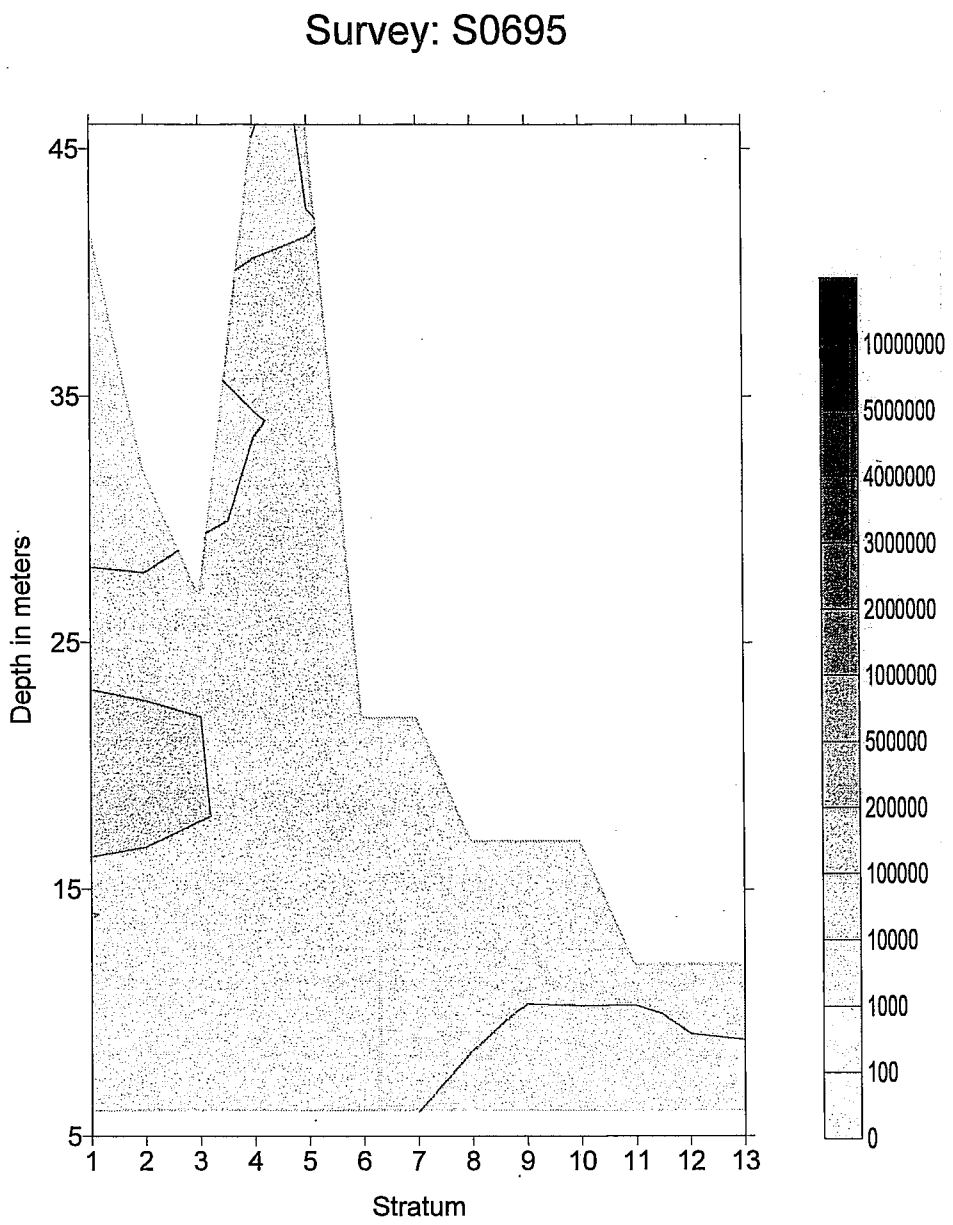

Figure 35. Number of herring by geographical stratum and depth strata in the Sound

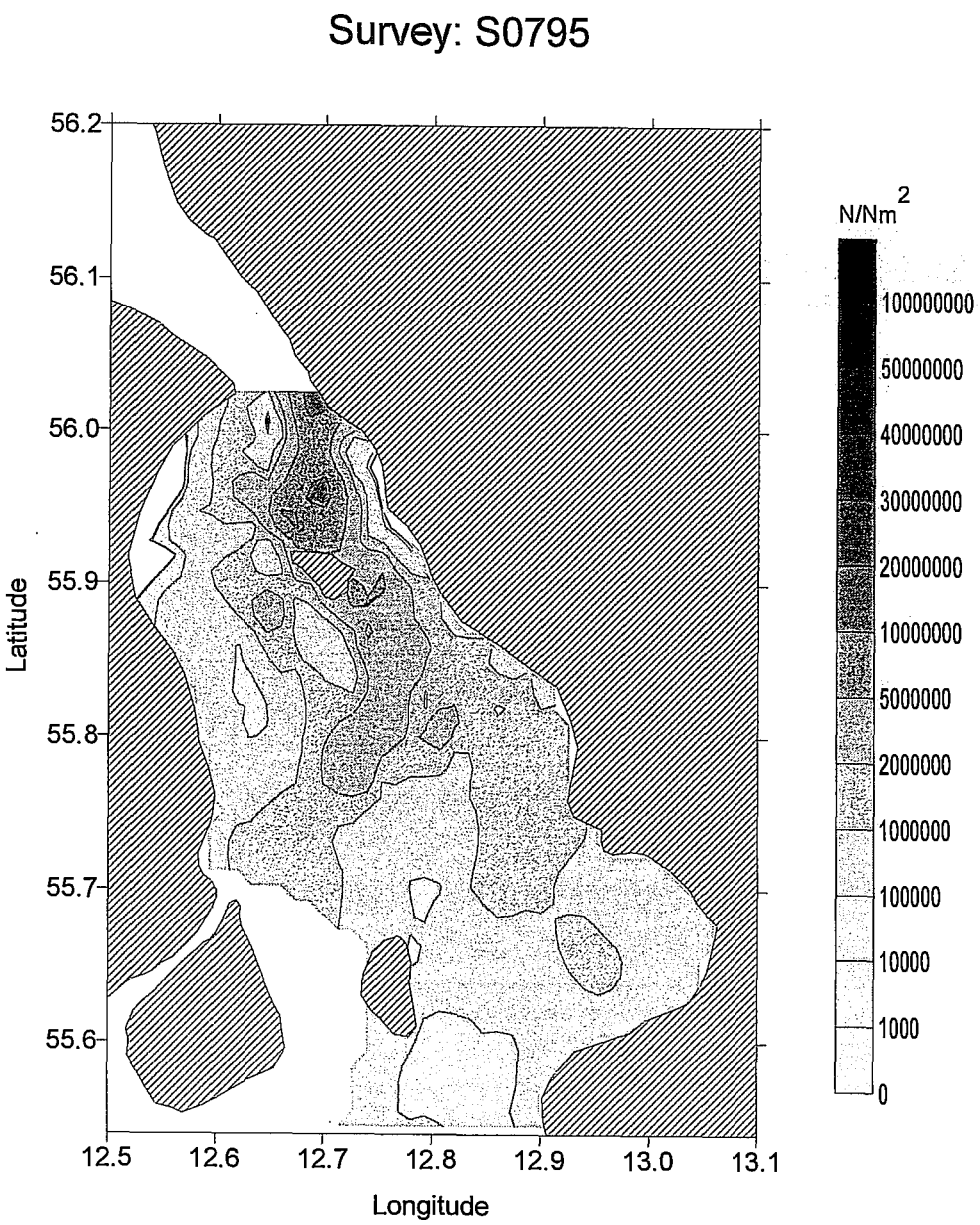

Figure 36. Herring in the Sound in number per square nuatical mile (N/Nm^2)

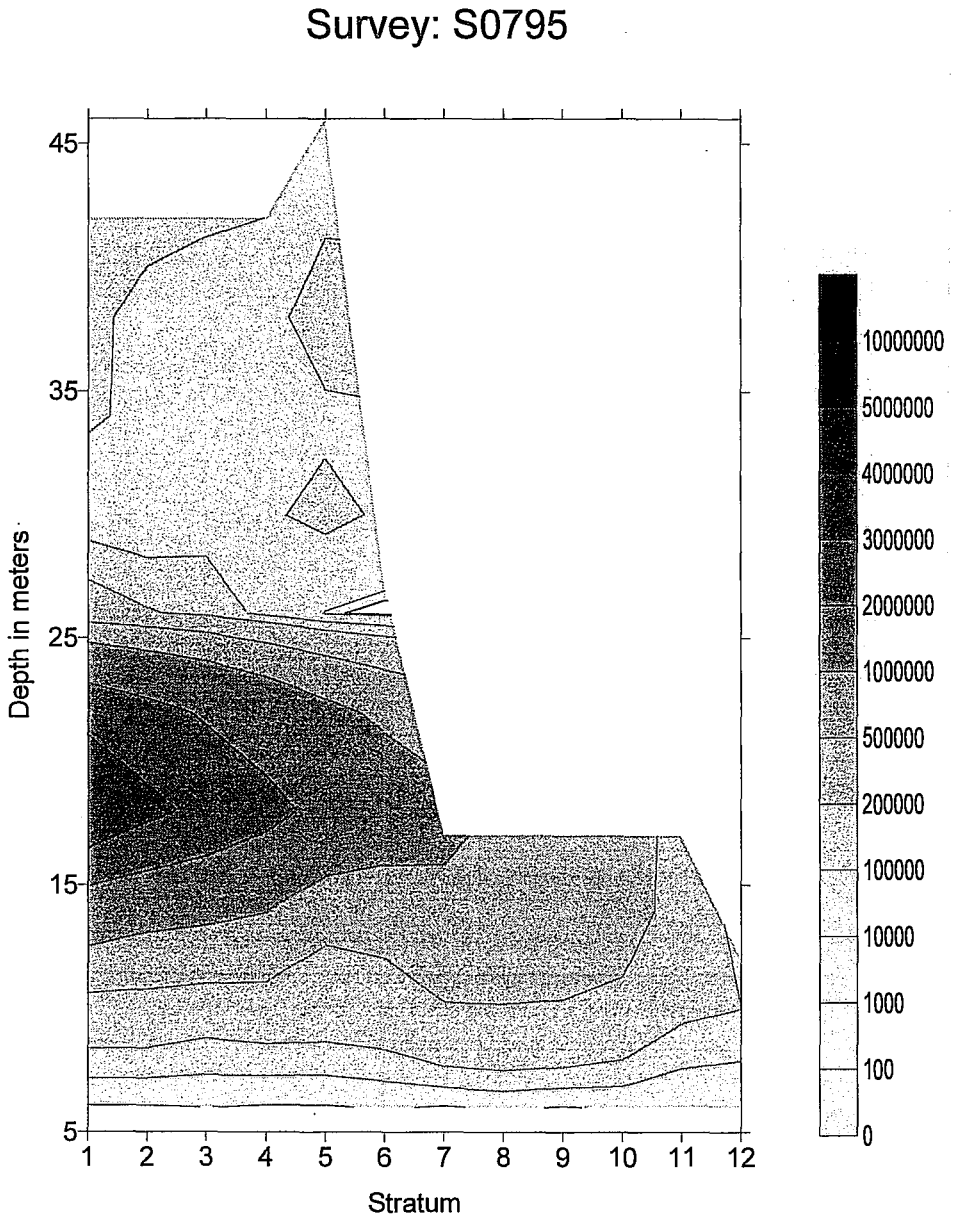

Figure 37. Number of herring by geographical stratum and depth strata in the Sound

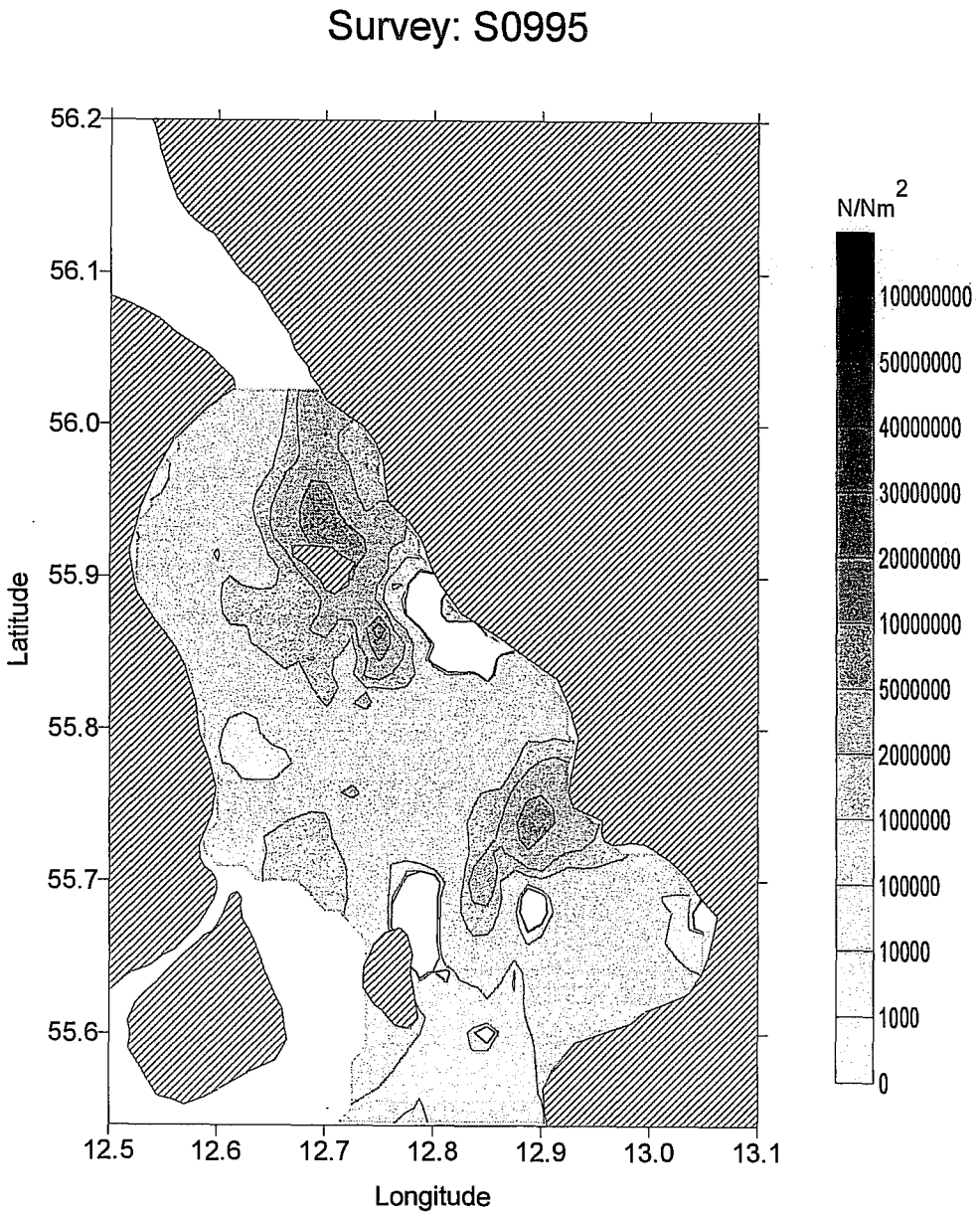

Figure 38. Herring in the Sound in number per square nuatical mile (N/Nm^2)

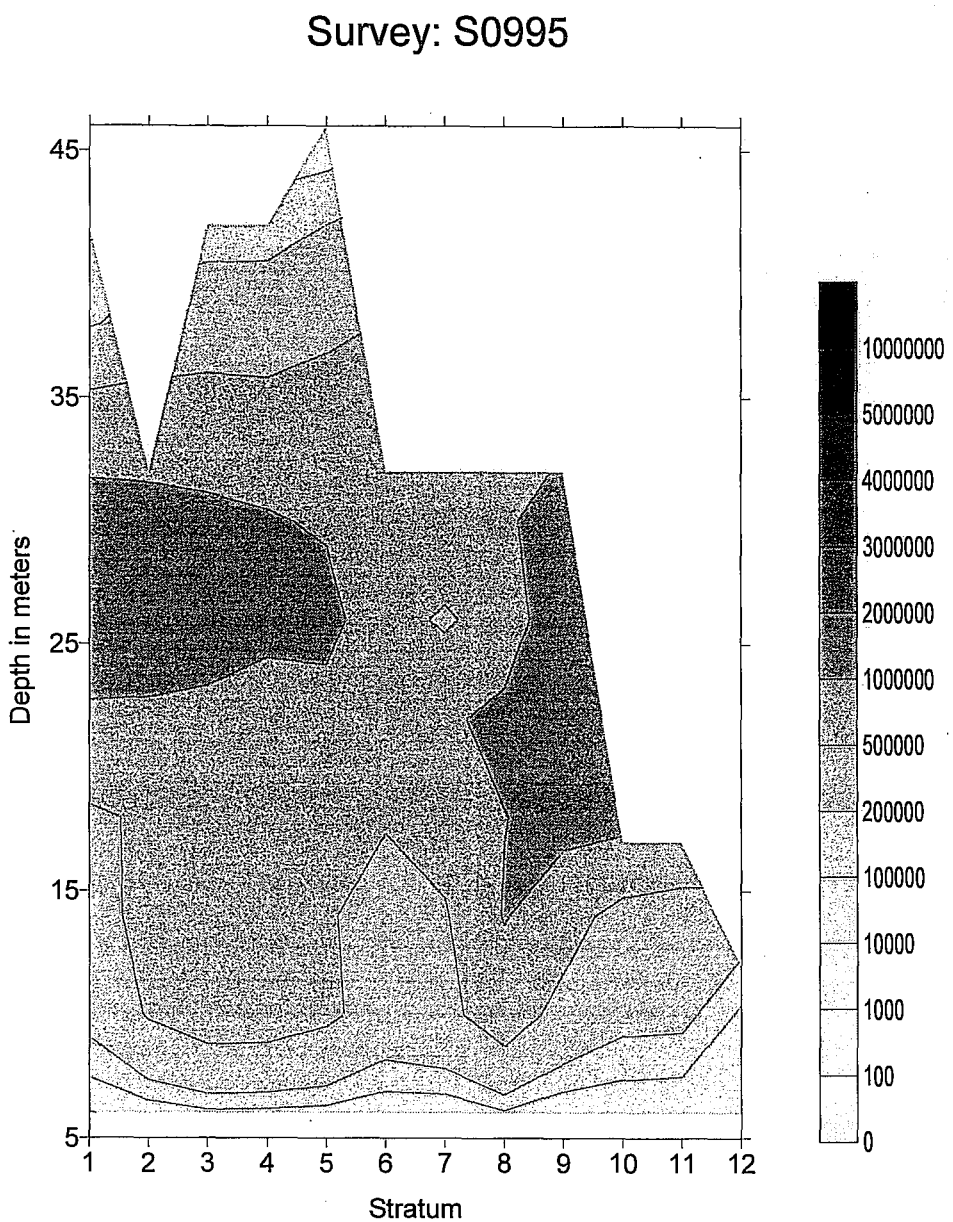

Figure 39. Number of herring by geographical stratum and depth strata in the Sound

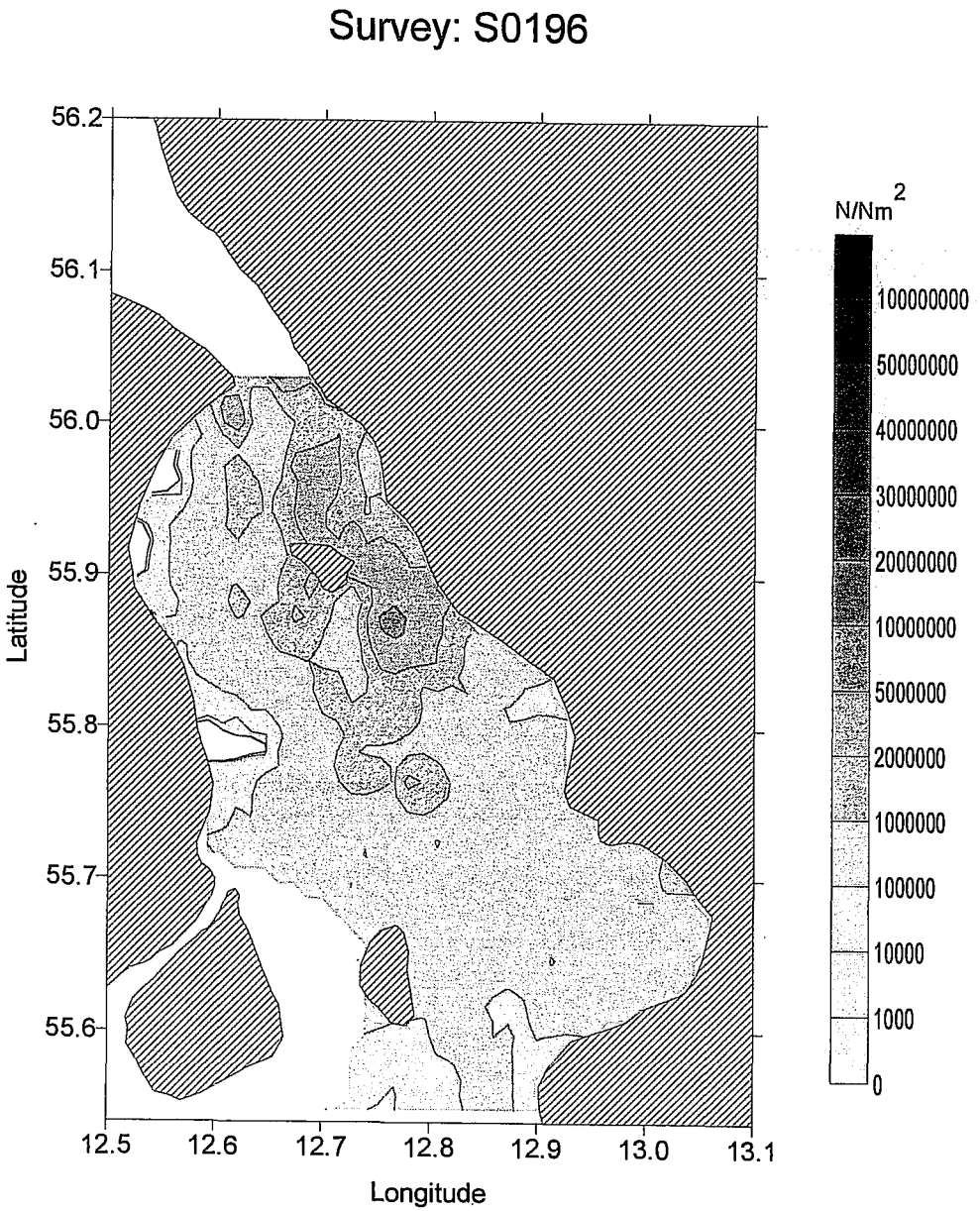

Figure 40. Herring in the Sound in number per square nuatical mile (N/Nm^2)

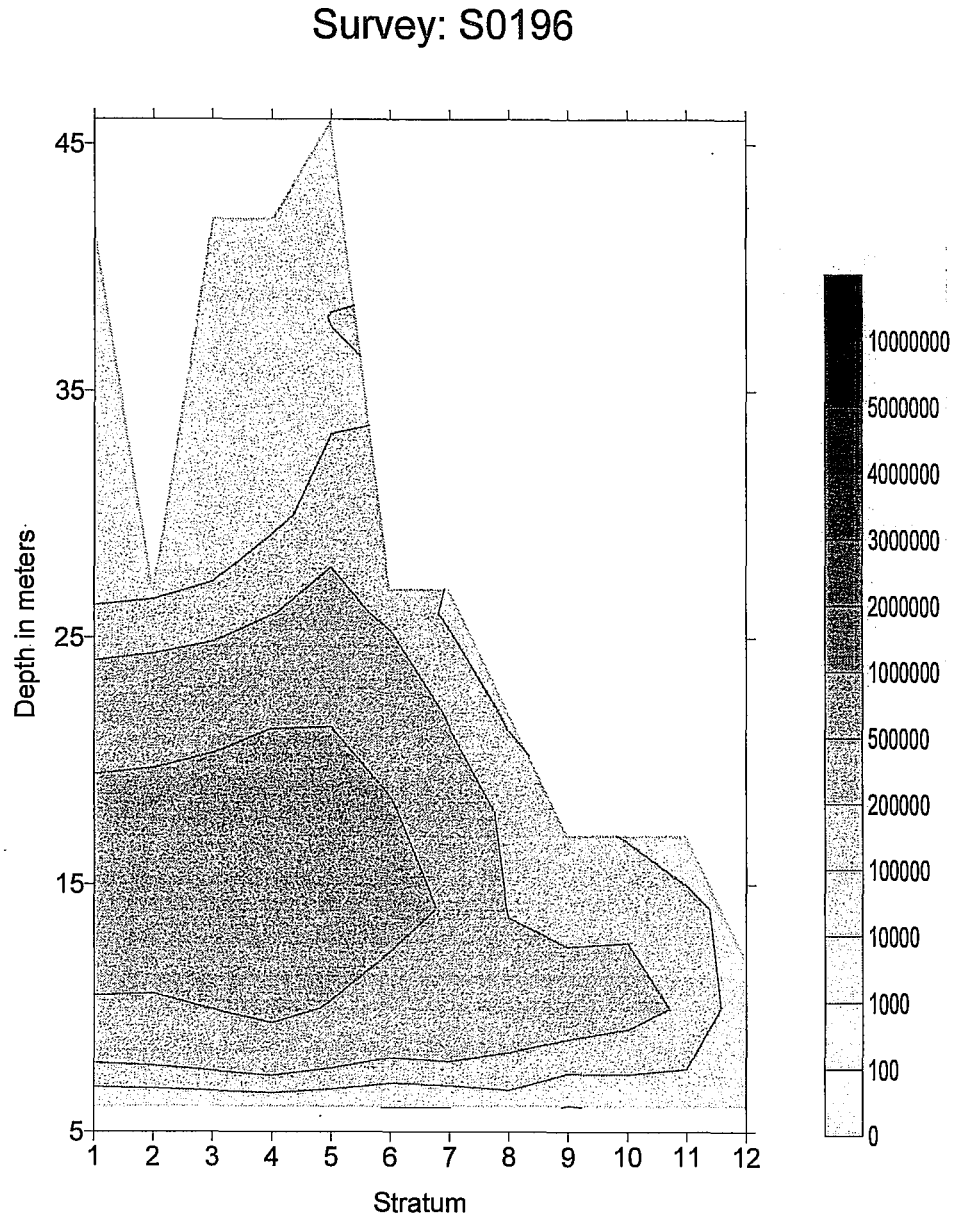

Figure 41. Number of herring by geographical stratum and depth strata in the Sound

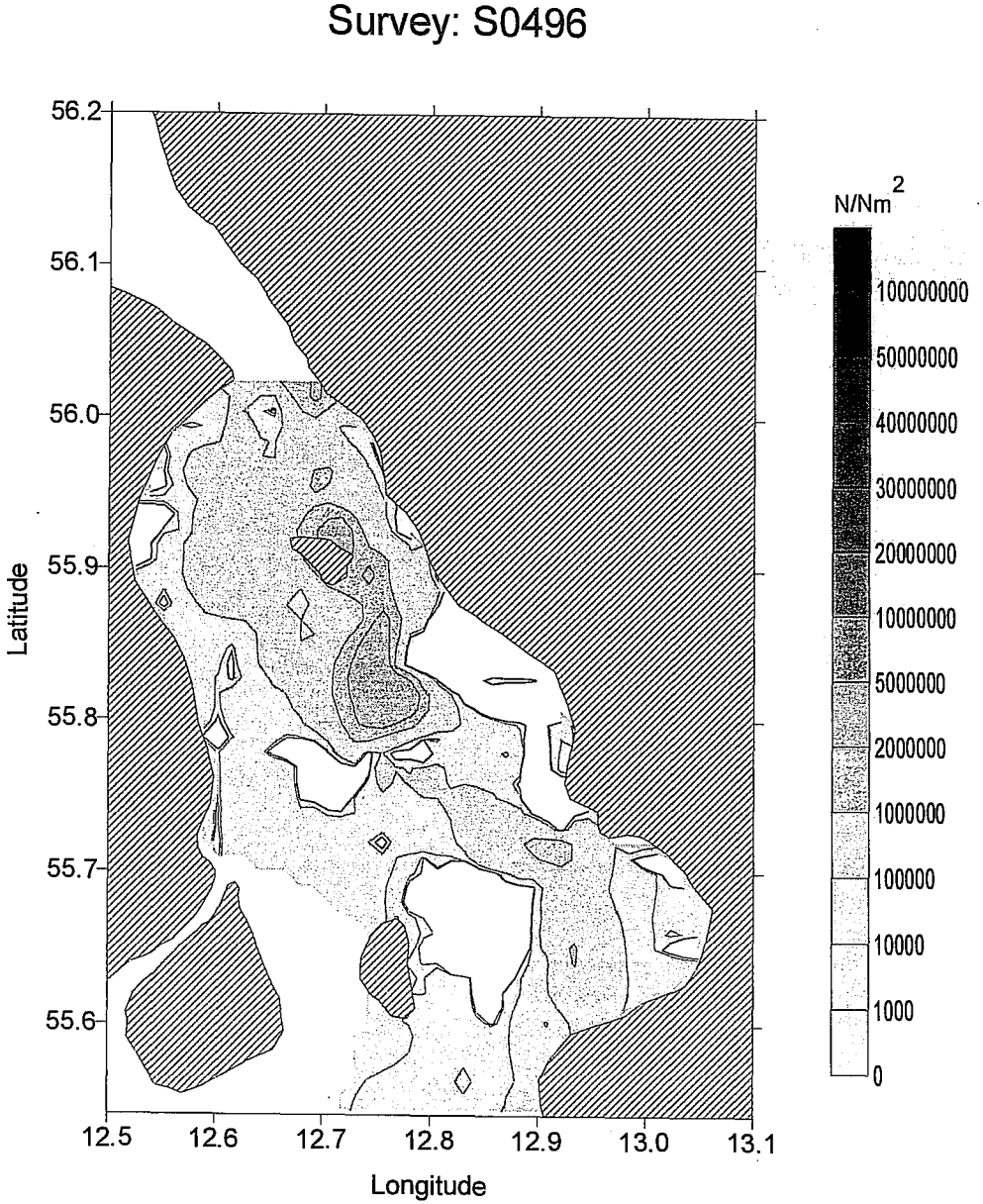

Figure 42. Herring in the Sound in number per square nuatical mile (N/Nm^2)

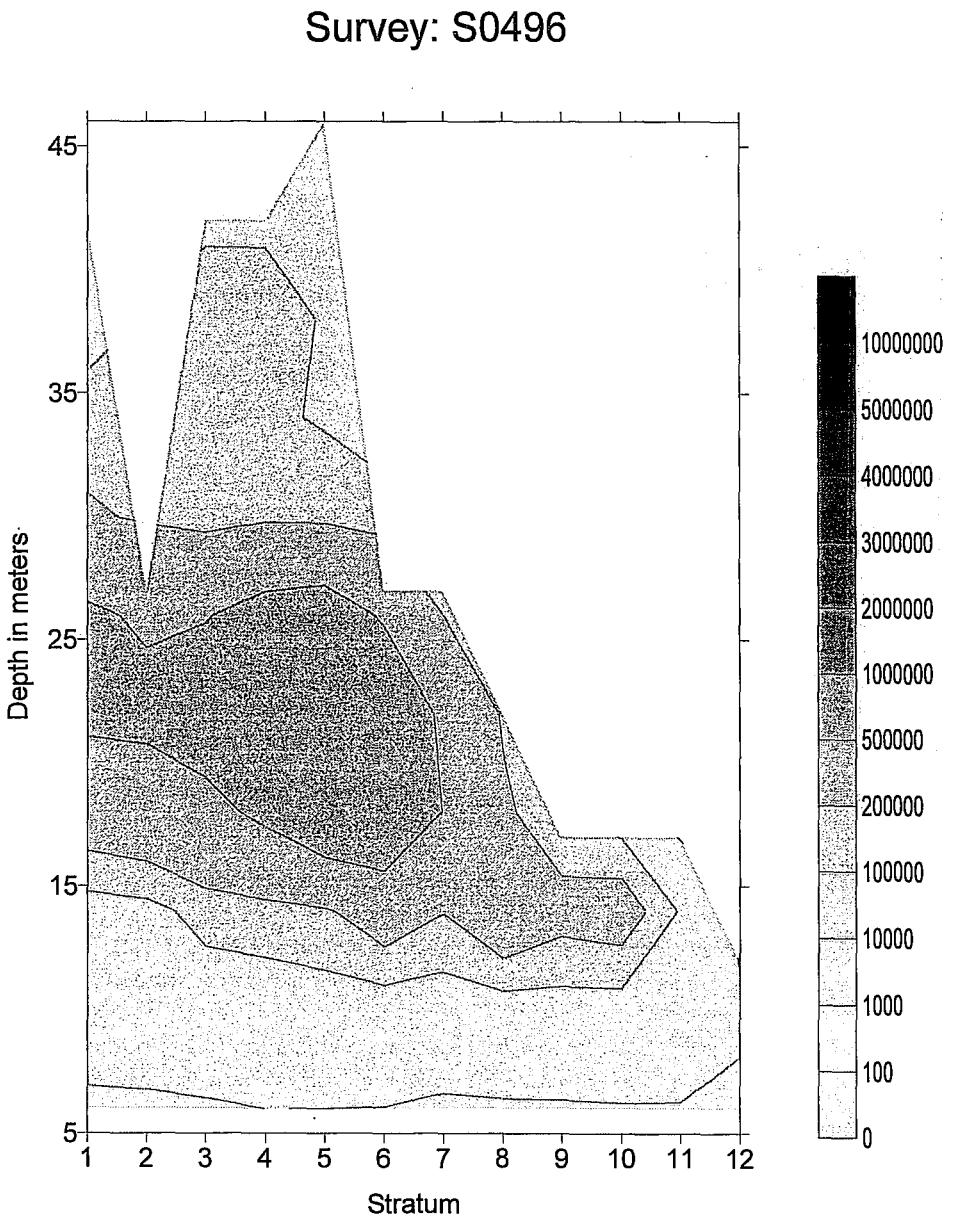

Figure 43. Number of herring by geographical stratum and depth strata in the Sound

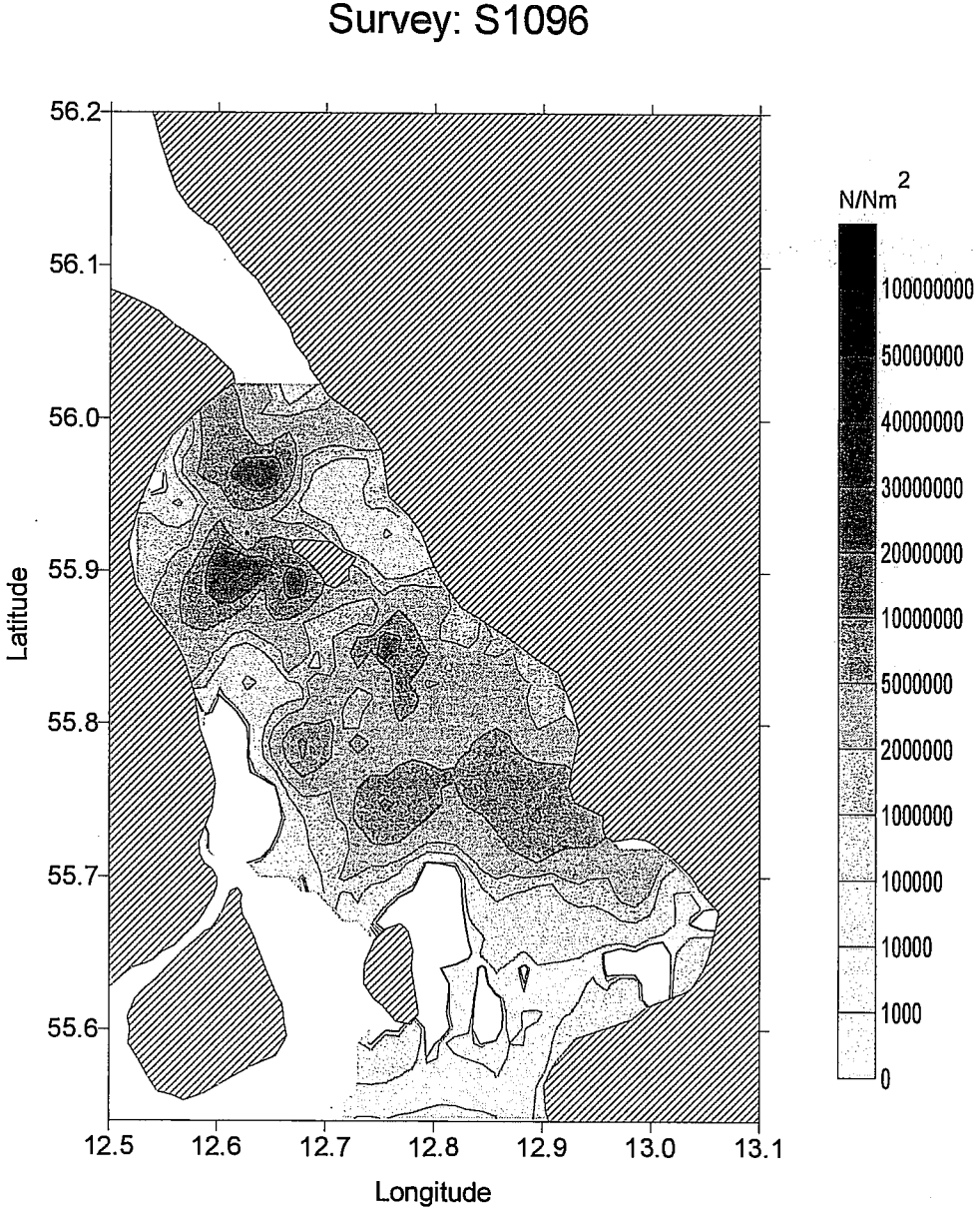

Figure 44. Herring in the Sound in number per square nuatical mile (N/Nm^2)

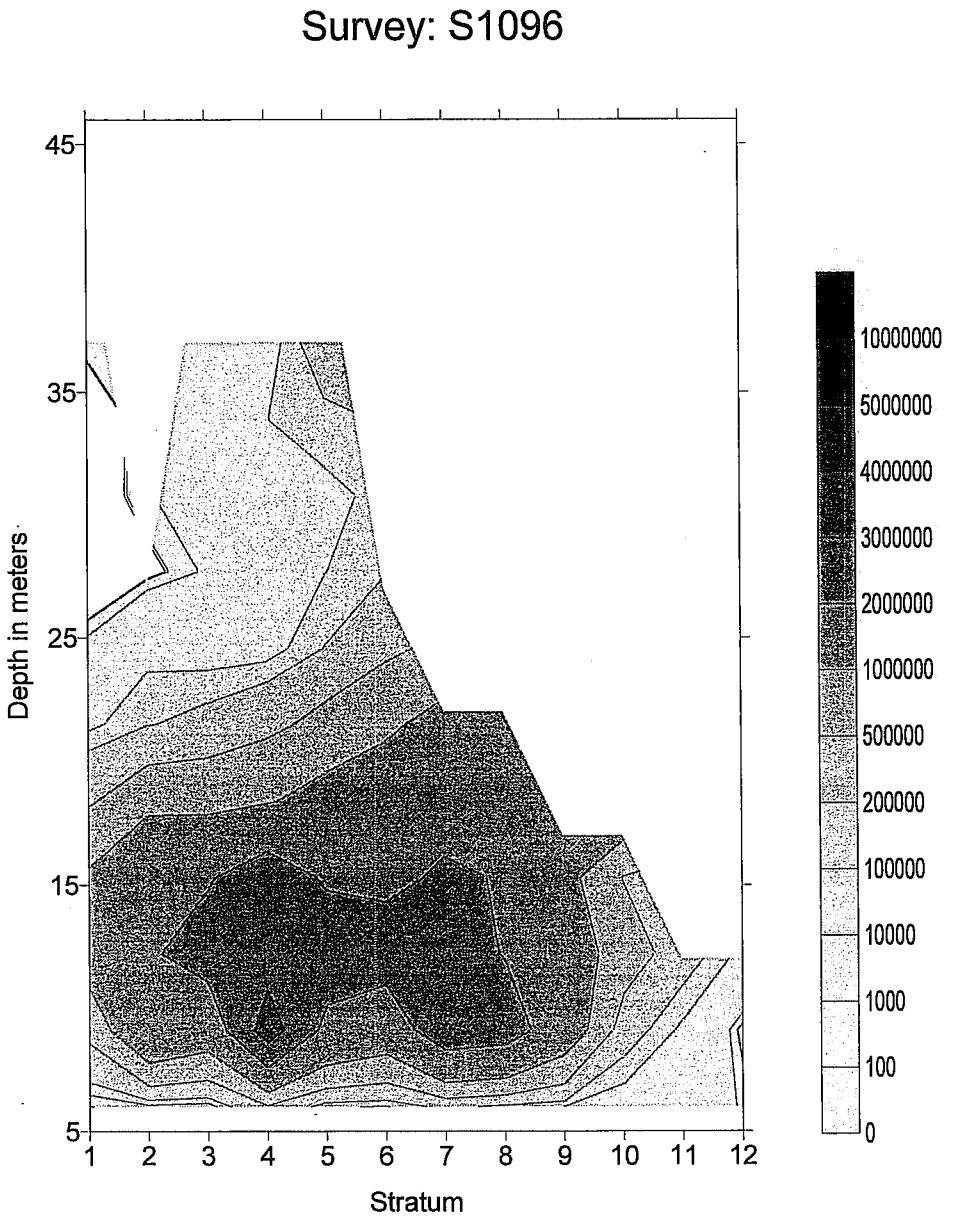

Figure 45. Number of herring by geographical stratum and depth strata in the Sound

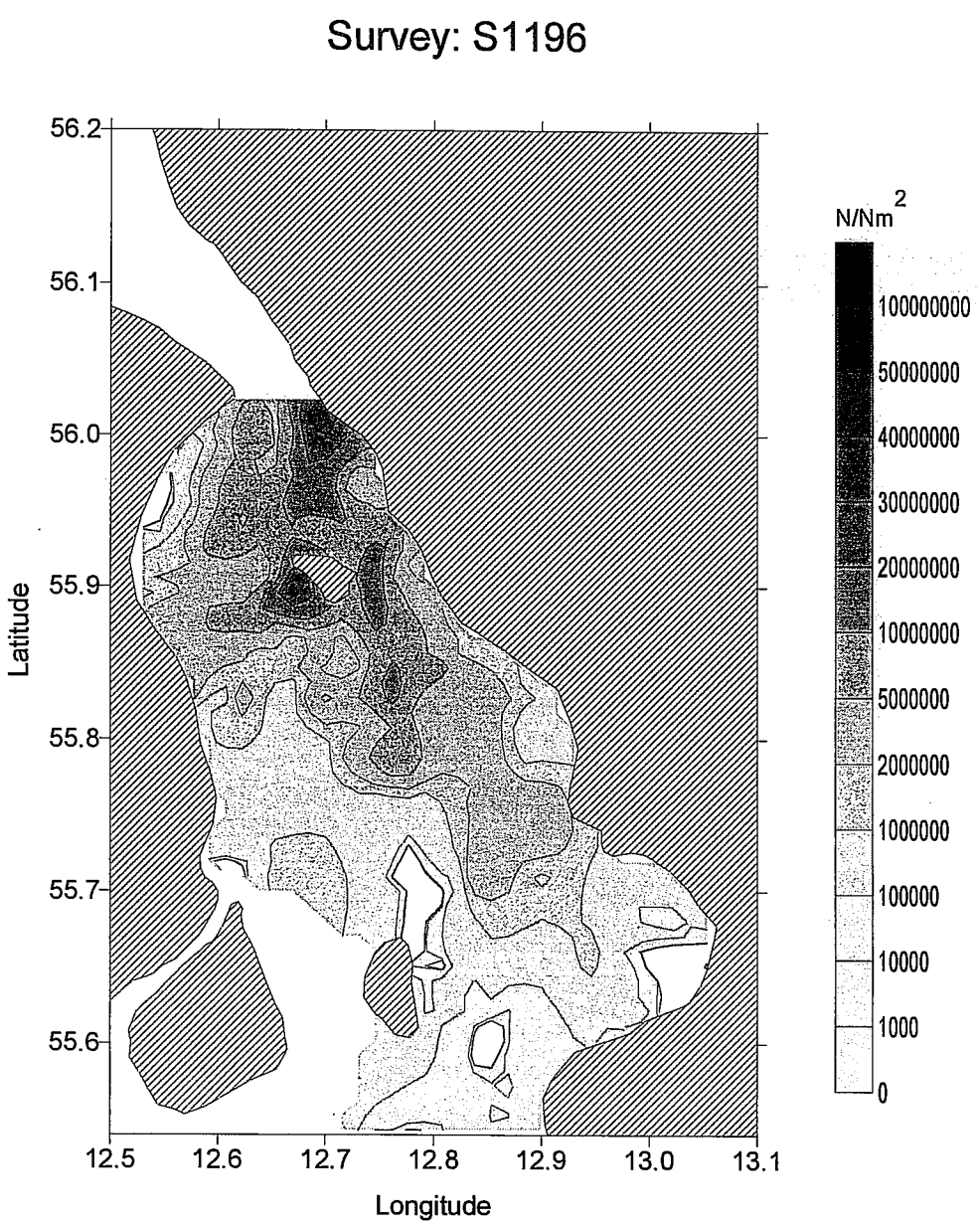

Figure 46. Herring in the Sound in number per square nuatical mile (N/Nm^2)

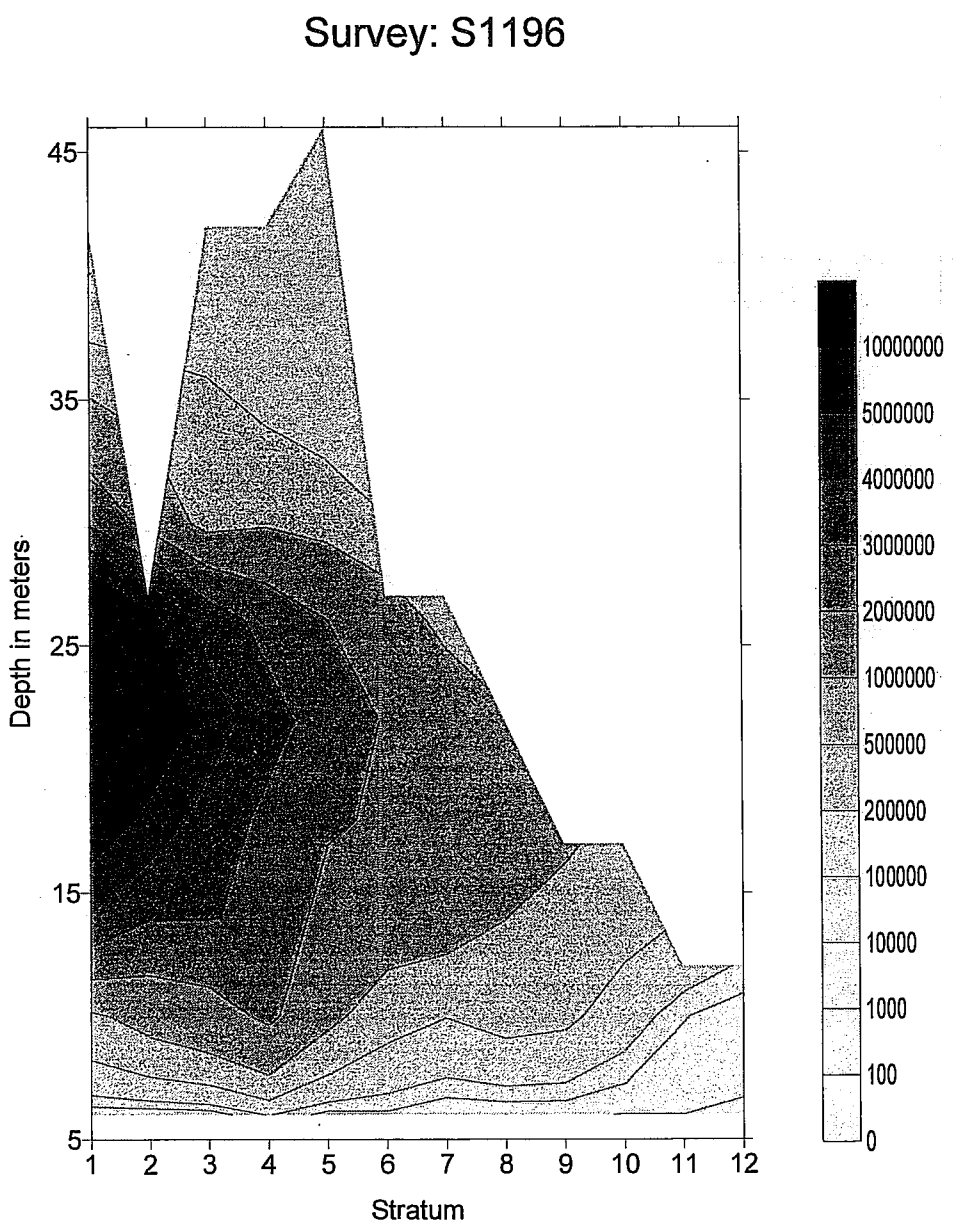

Figure 47. Number of herring by geographical stratum and depth strata in the Sound

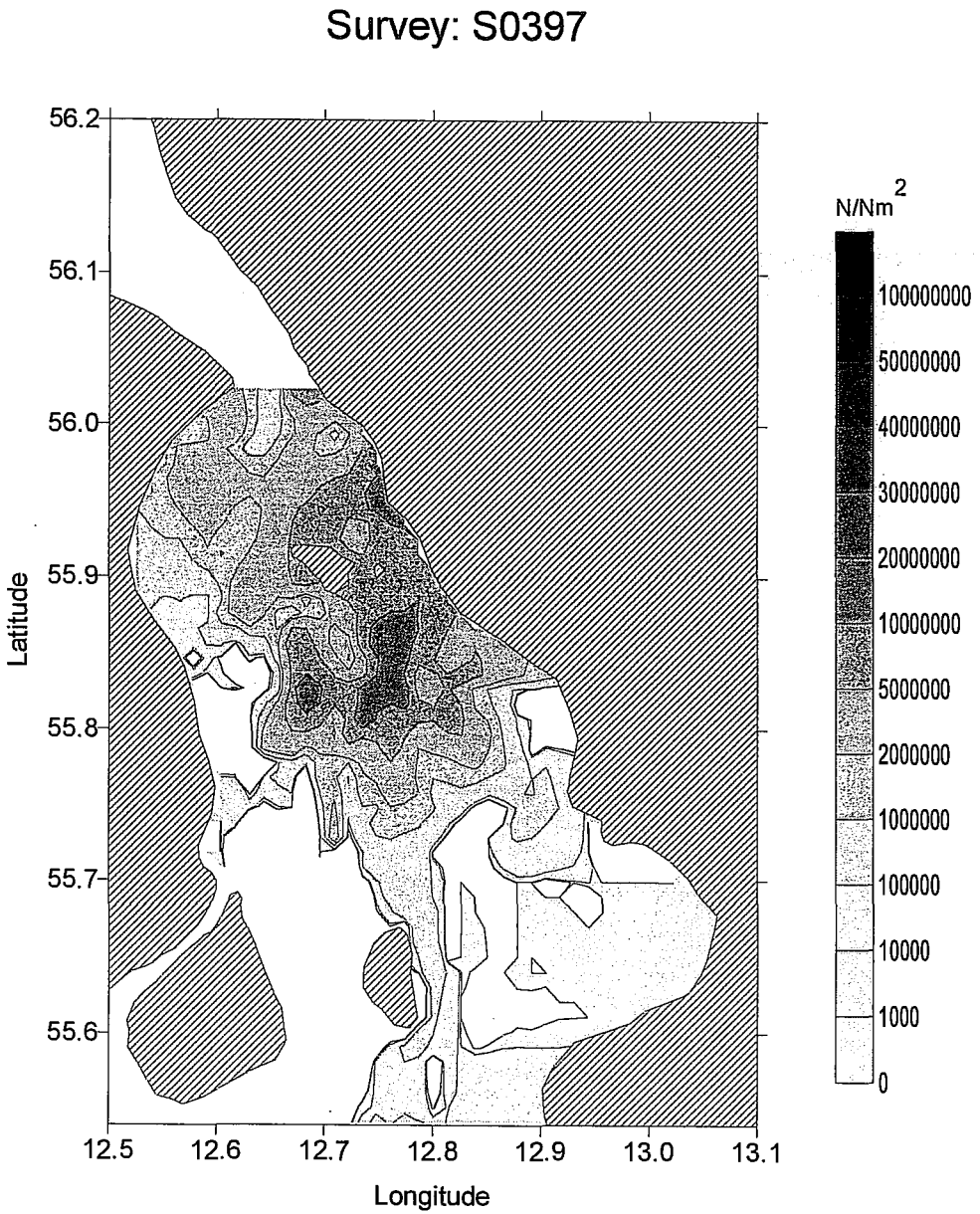

Figure 48. Herring in the Sound in number per square nuatical mile (N/Nm^2)

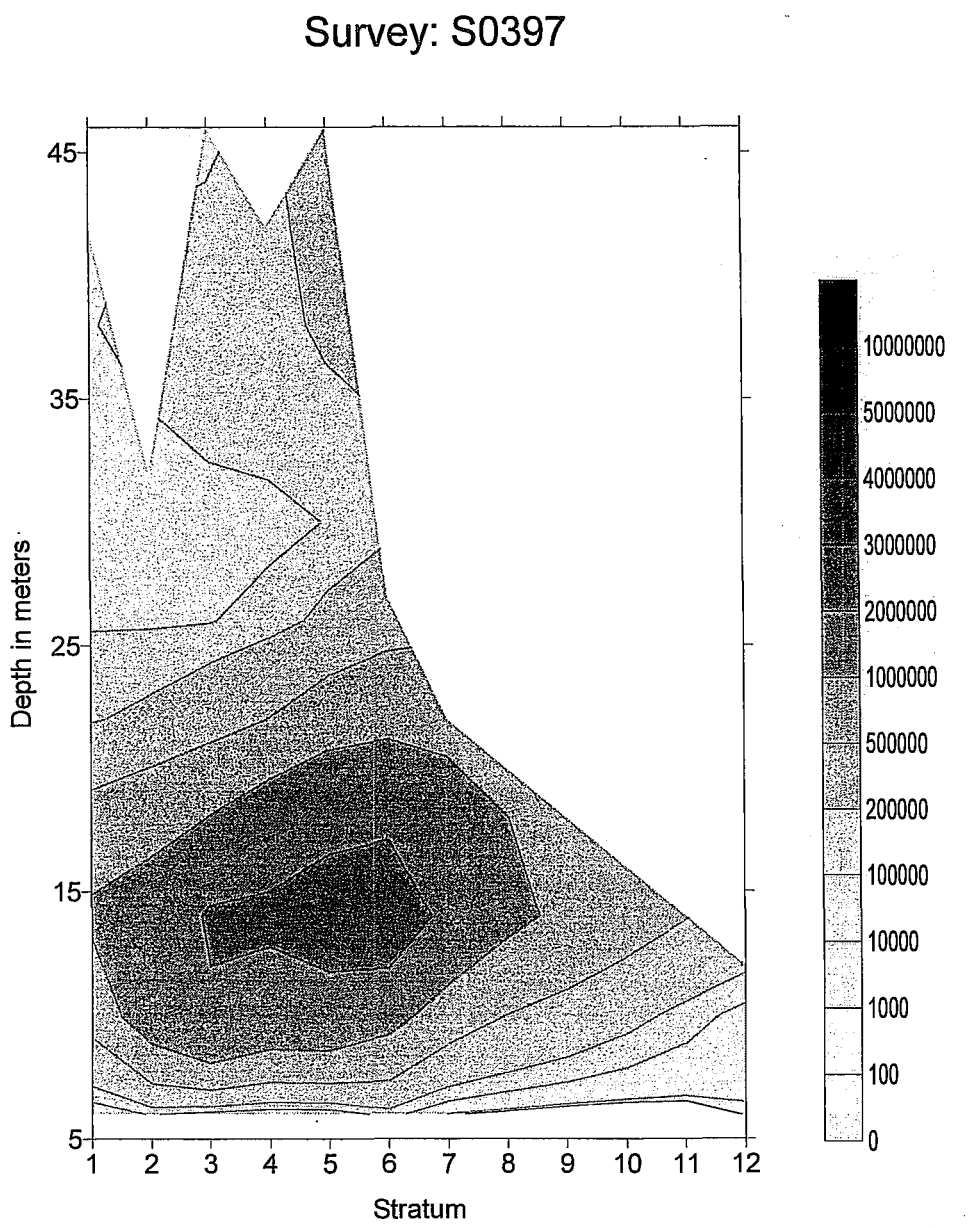

Figure 49. Number of herring by geographical stratum and depth strata in the Sound

Survey: S0497

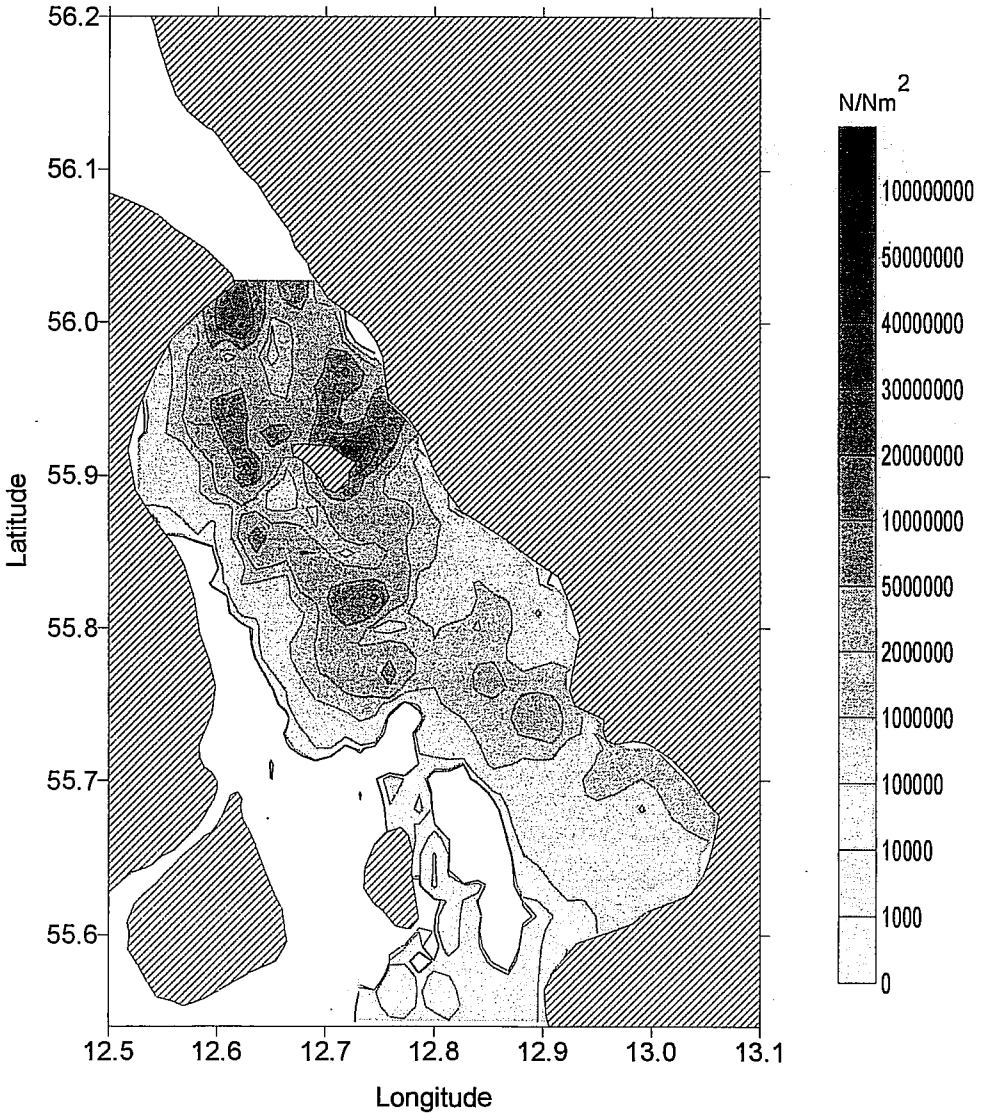

Figure 50. Herring in the Sound in number per square nuatical mile (N/Nm^2)

Survey: S0497

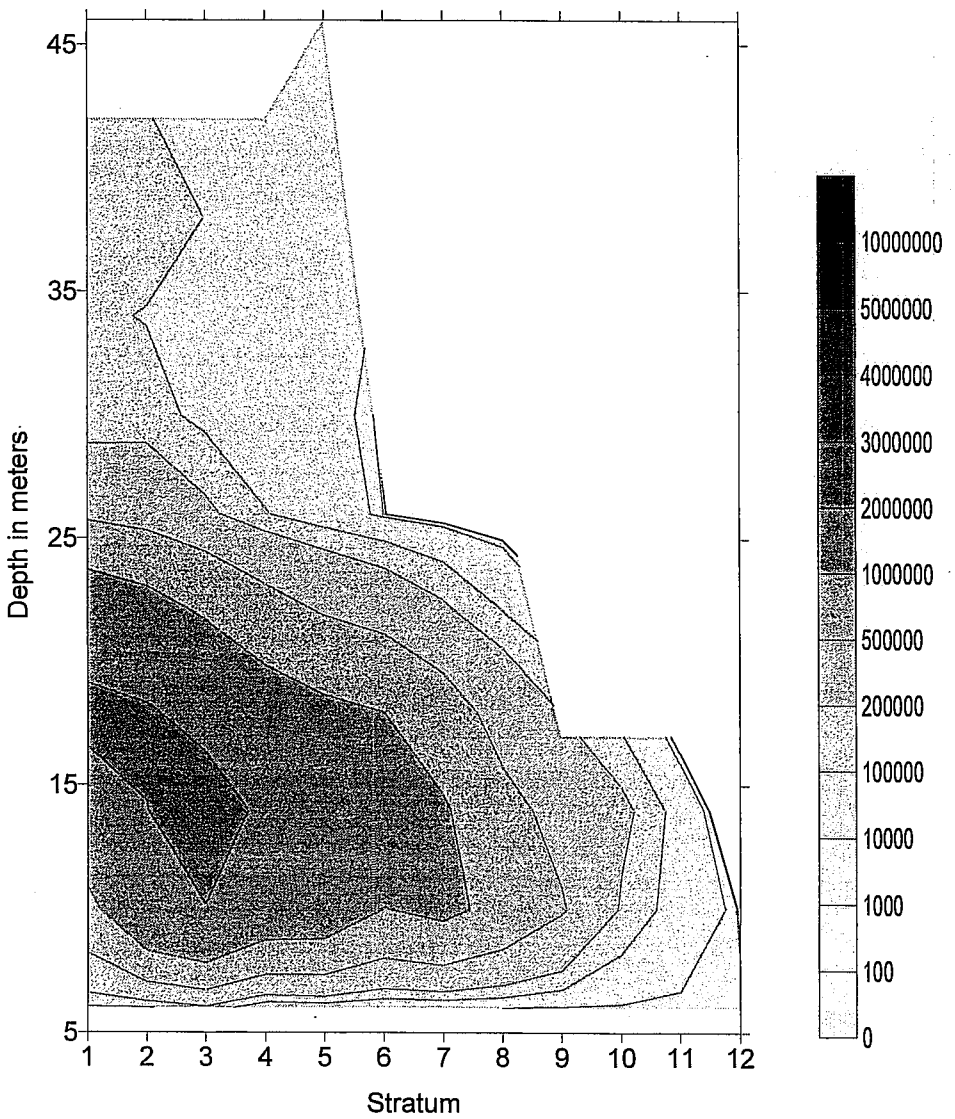

Figure 51. Number of herring by geographical stratum and depth strata in the Sound

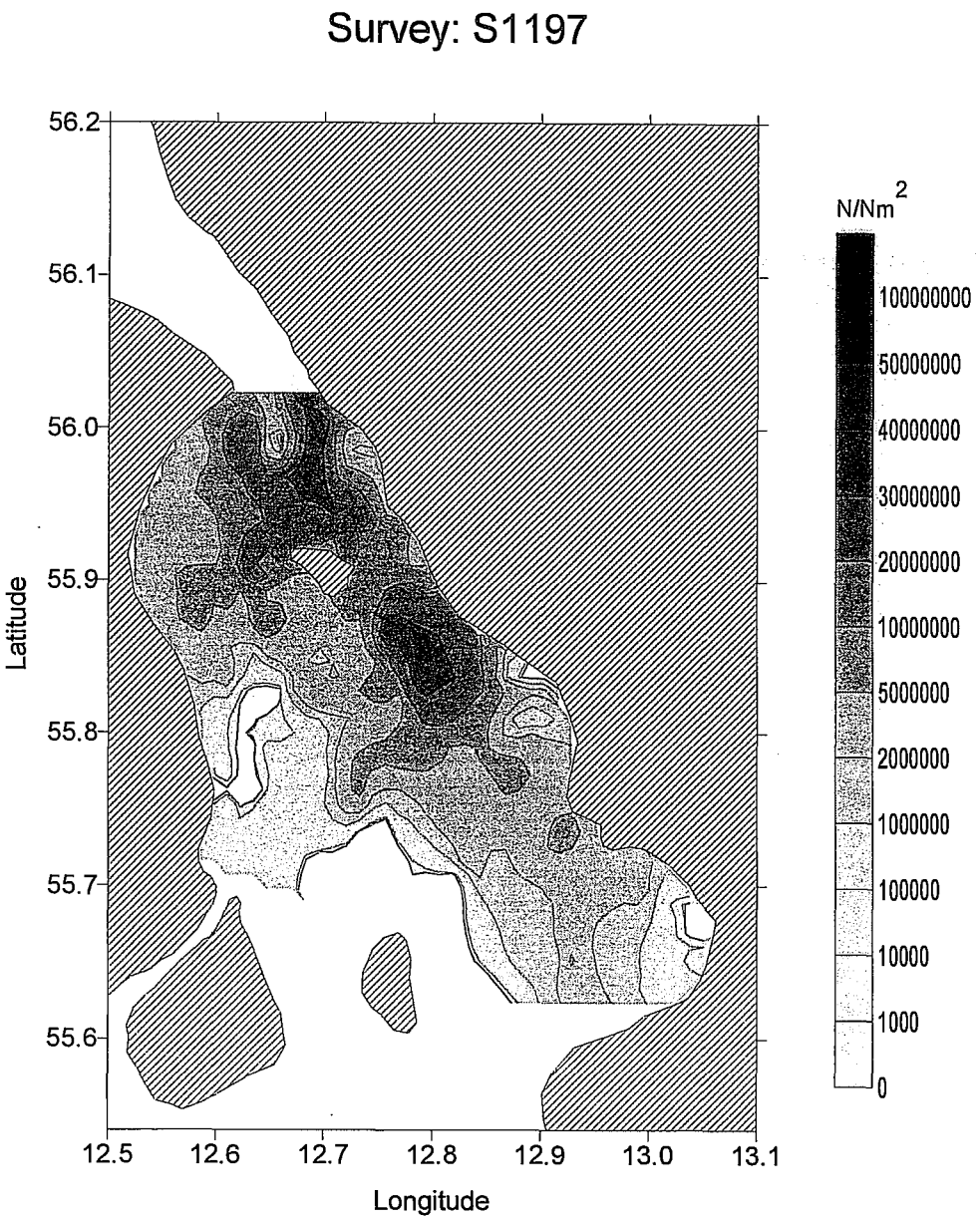

Figure 52. Herring in the Sound in number per square nuatical mile (N/Nm^2)

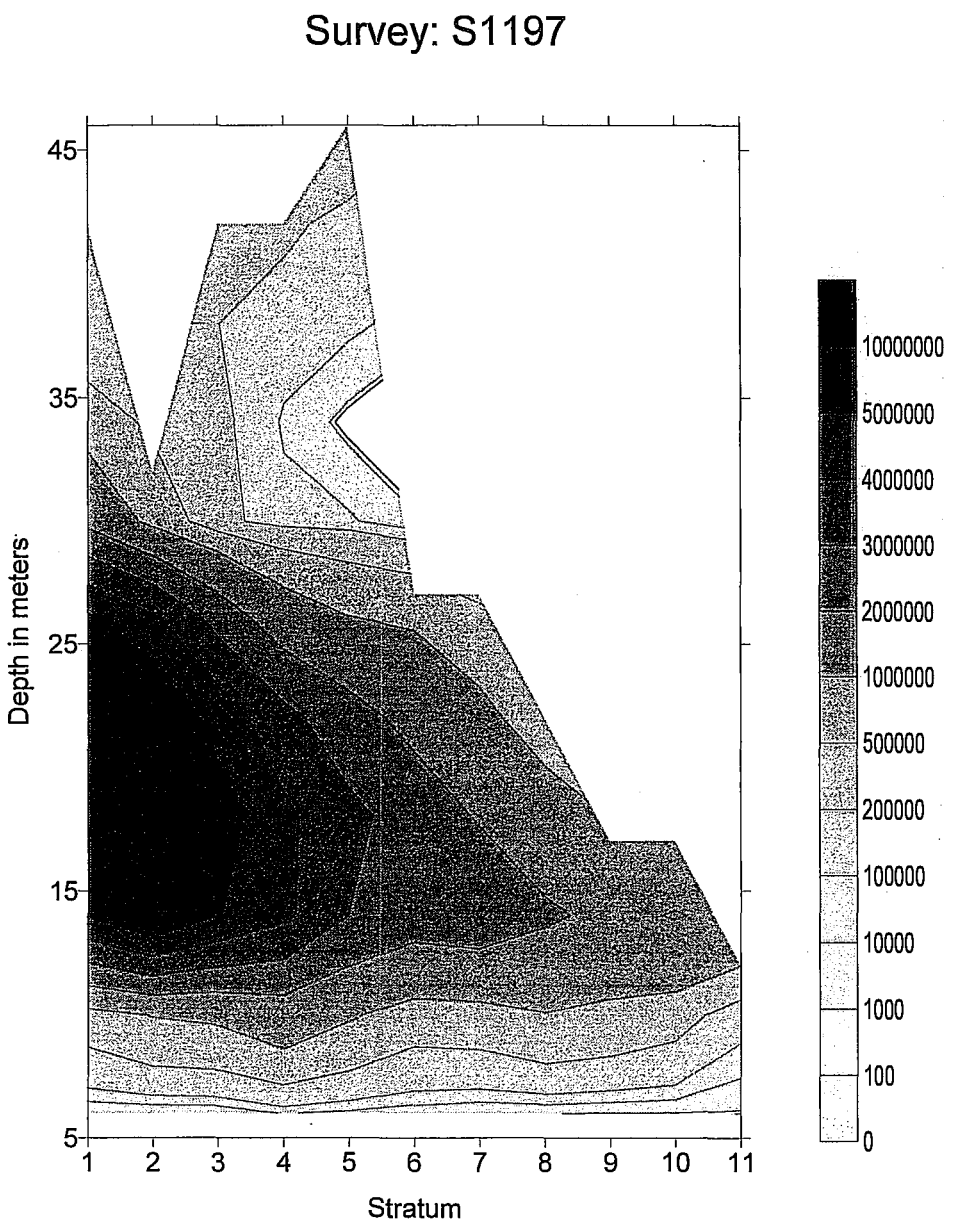

Figure 53. Number of herring by geographical stratum and depth strata in the Sound

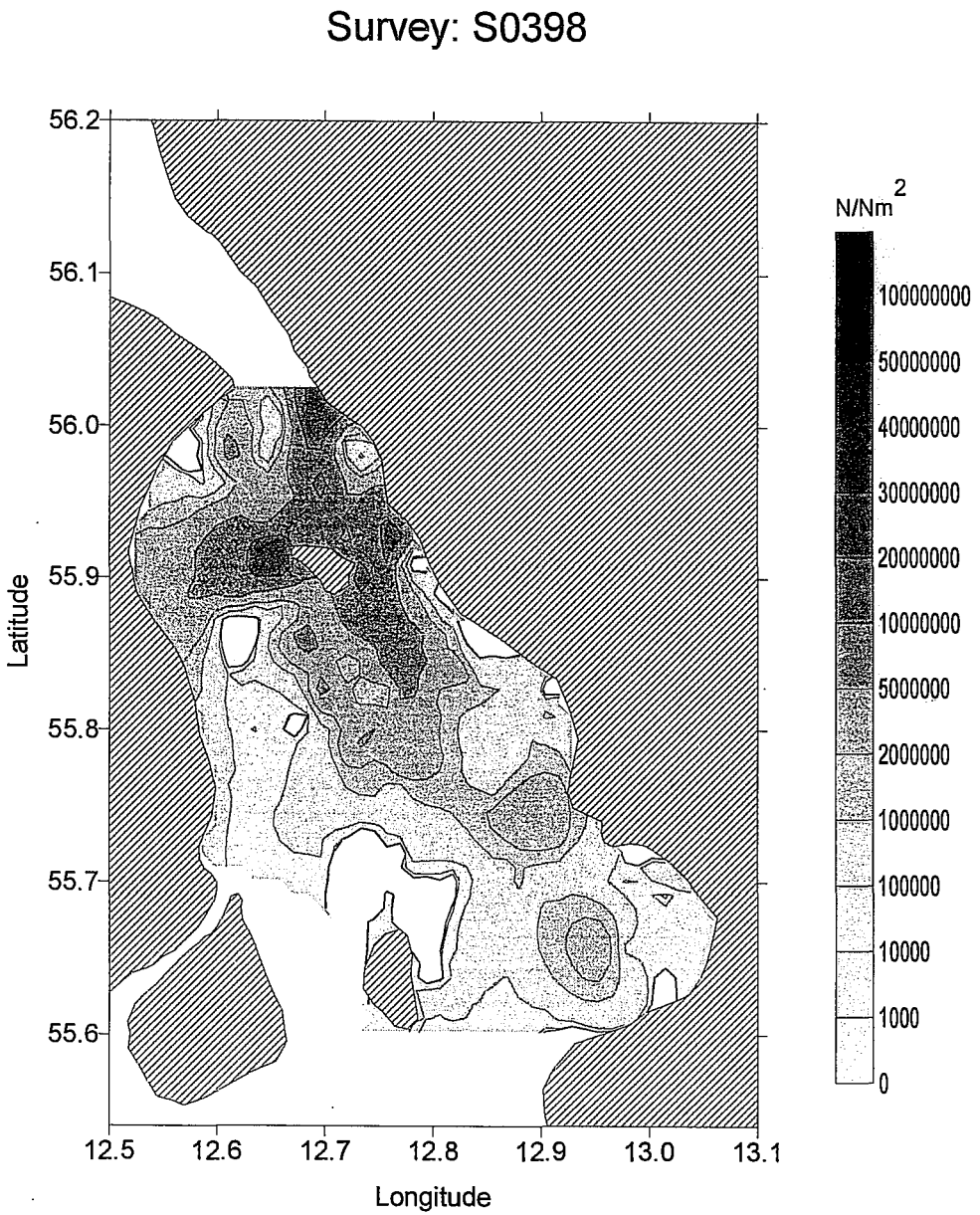

Figure 54. Herring in the Sound in number per square nuatical mile (N/Nm^2)

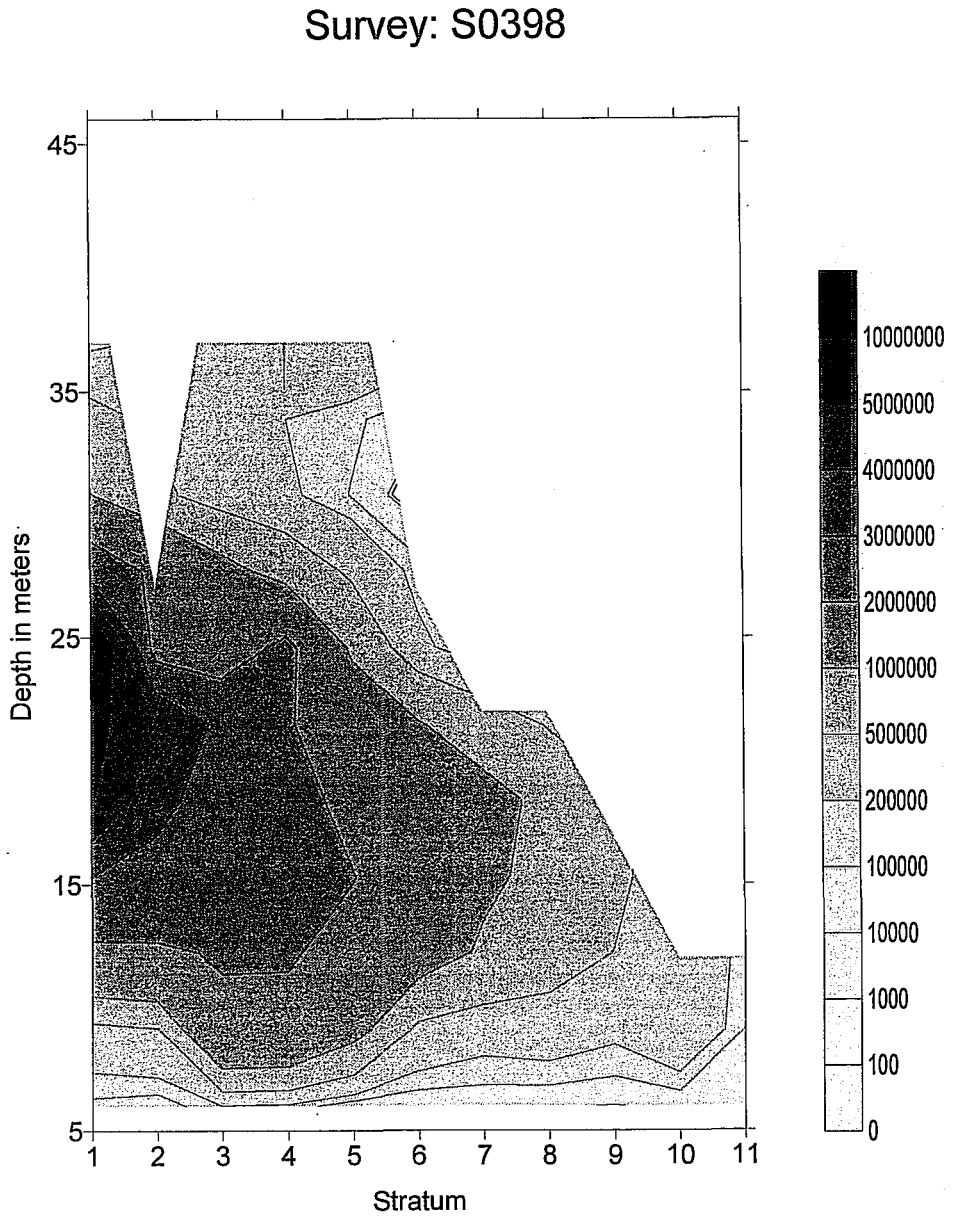

Figure 55. Number of herring by geographical stratum and depth strata in the Sound

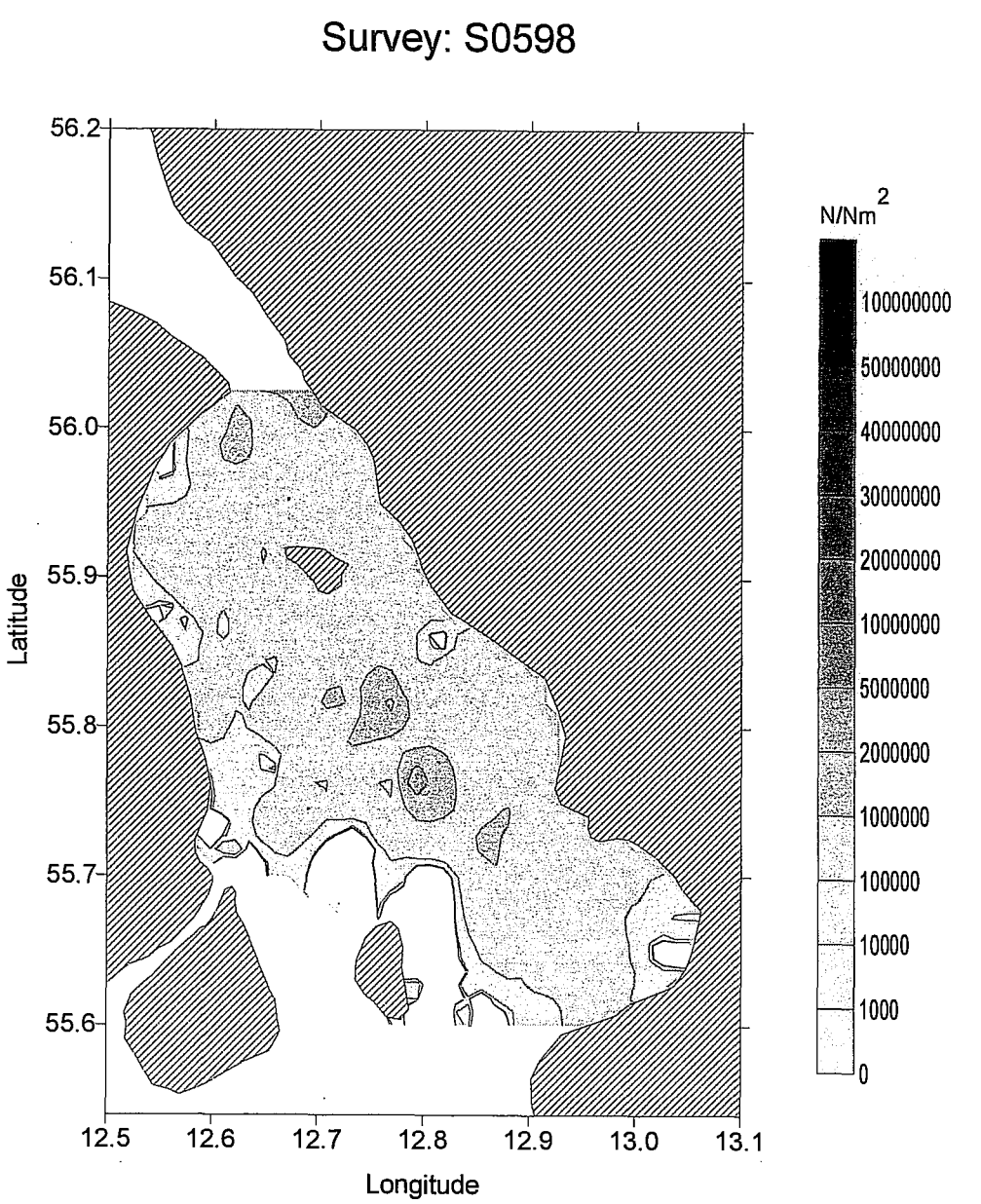

Figure 56. Herring in the Sound in number per square nuatical mile (N/Nm^2)

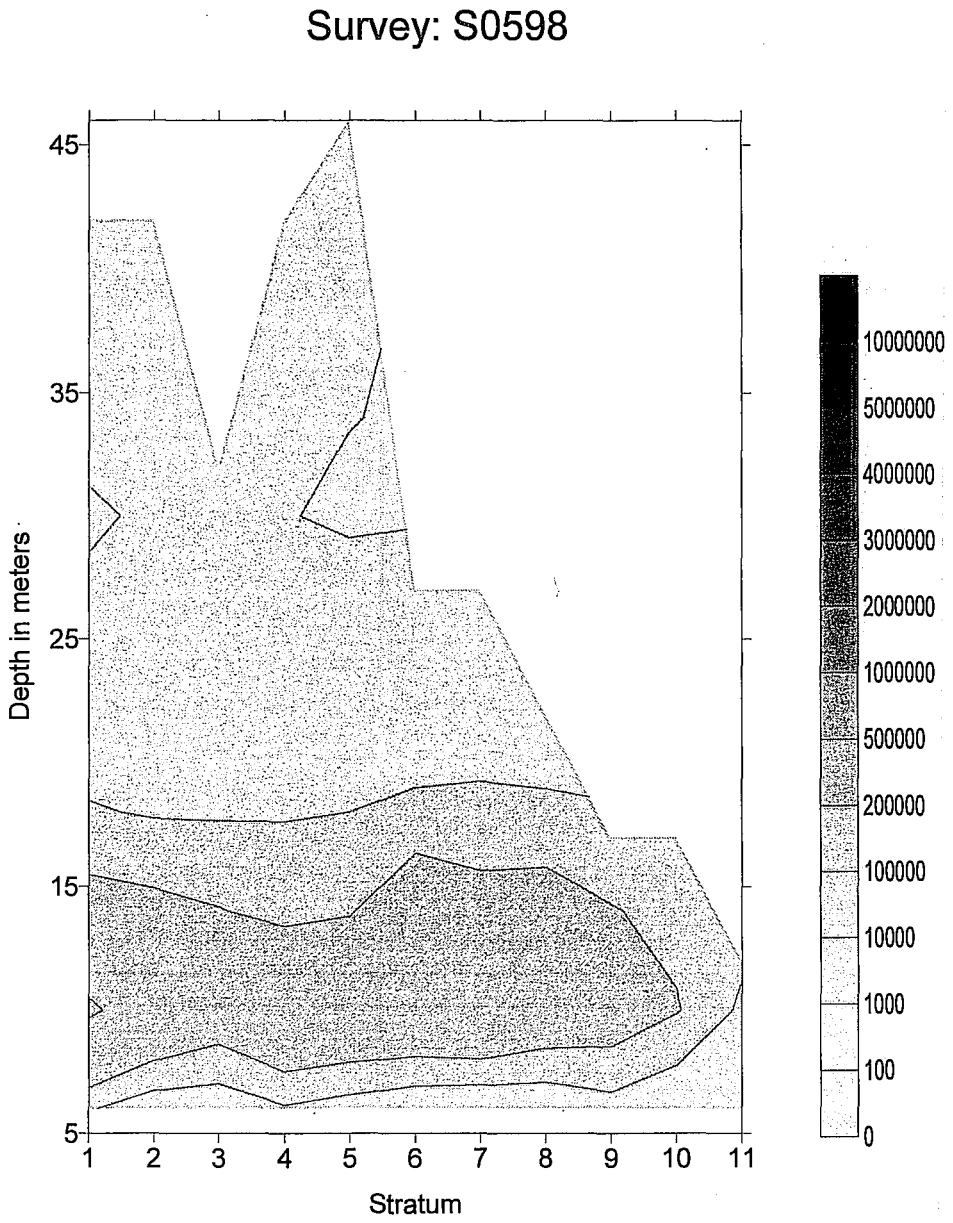

Figure 57. Number of herring by geographical stratum and depth strata in the Sound

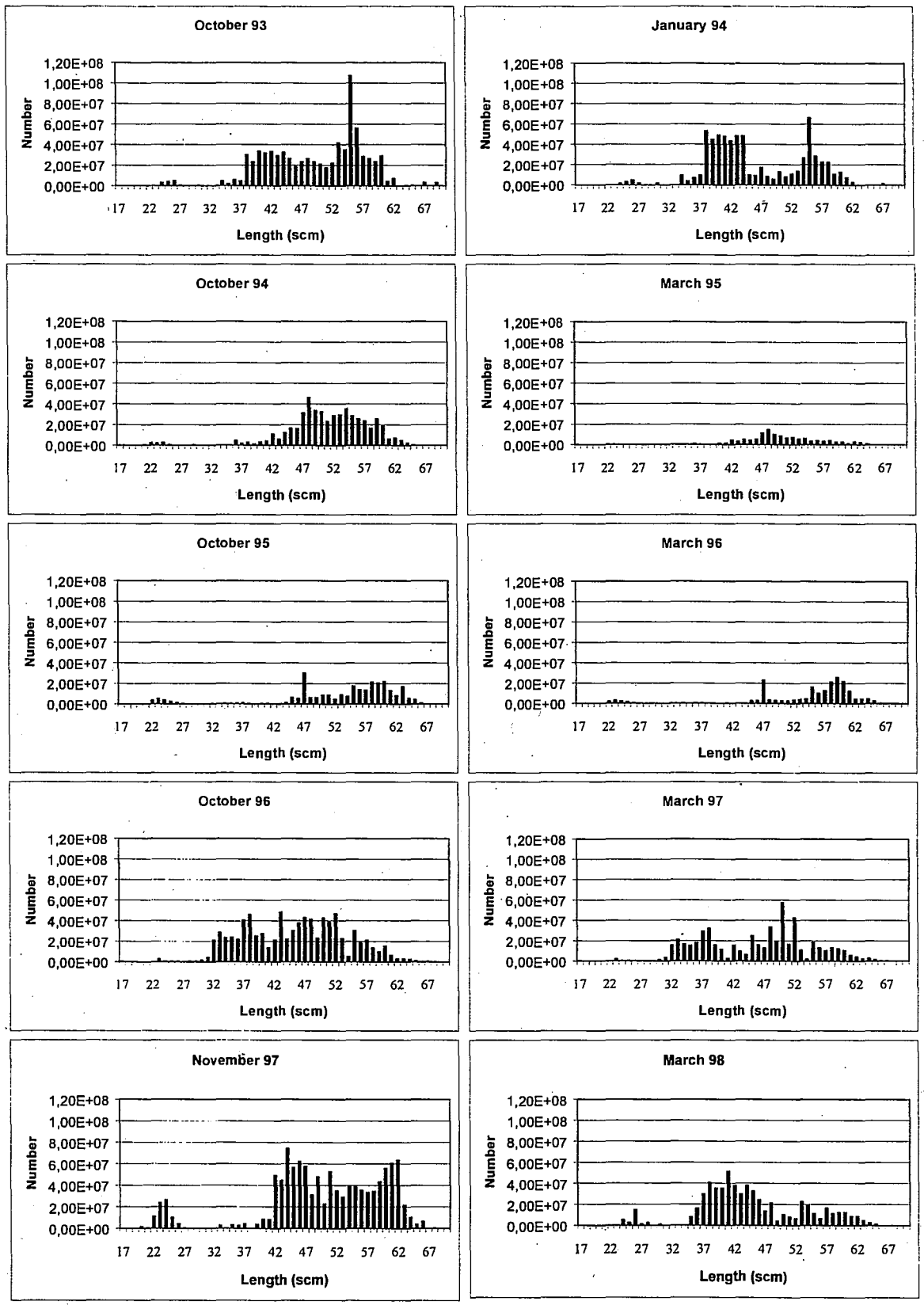

Figure 58. Estimated length distribution of herring in the Sound in selected months in the spring and autumn seasons for each year in the survey period 1993-1998. The length frequencies are pooled data for all geographical strata (G1-G13). (January 1994 has been selected instead of February-March 1994 because not all of the survey area was covered in the two latter months).

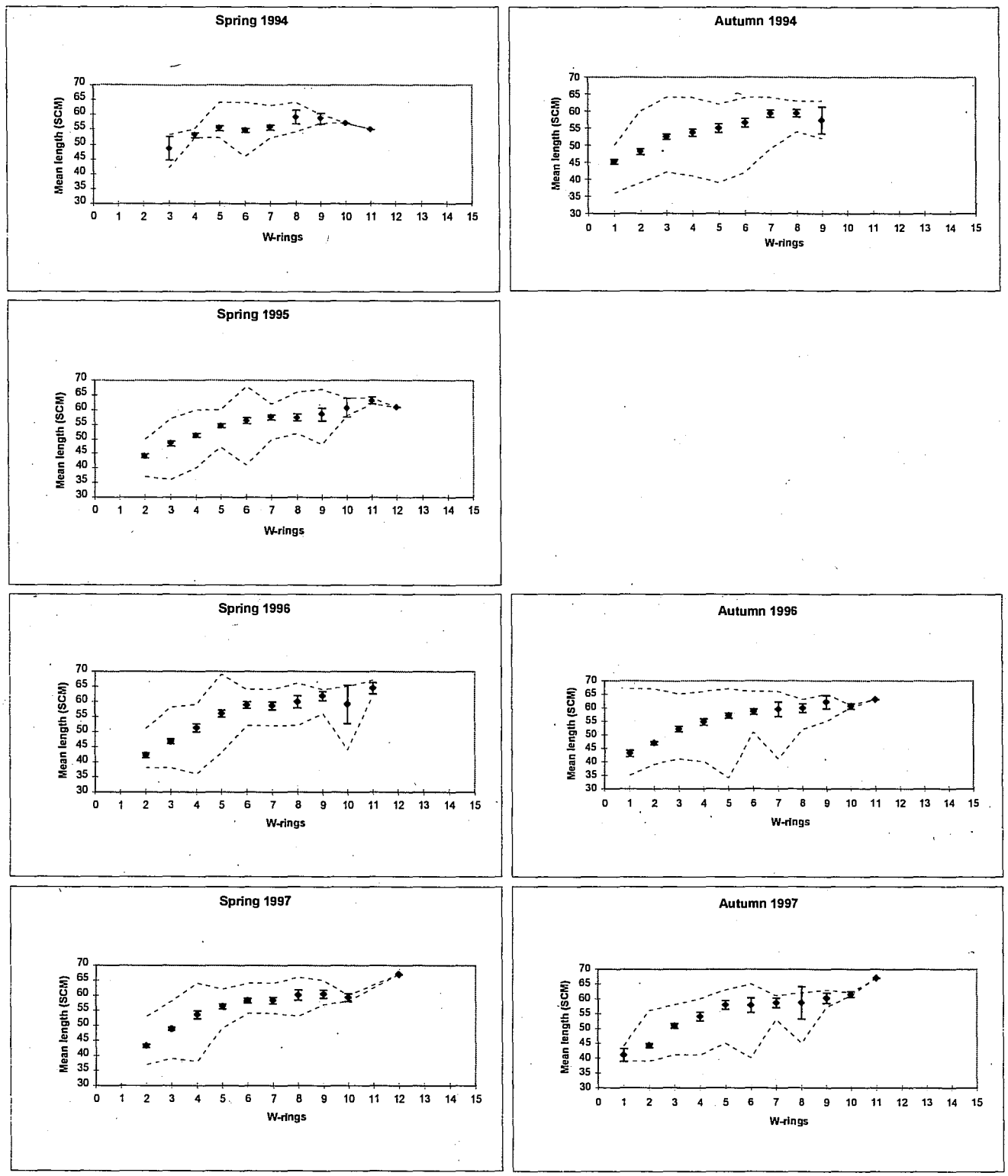

Figure 59. Mean length in semi-centimetre (scm) divided by winter rings (W-rings) in the spring and autumn for herring in the Sound. Data is based on experimental gillnet catches. Minimum and maximum length range are given for each ring group by the stipulated lines. Confidence limits = 2 * Std. Err.

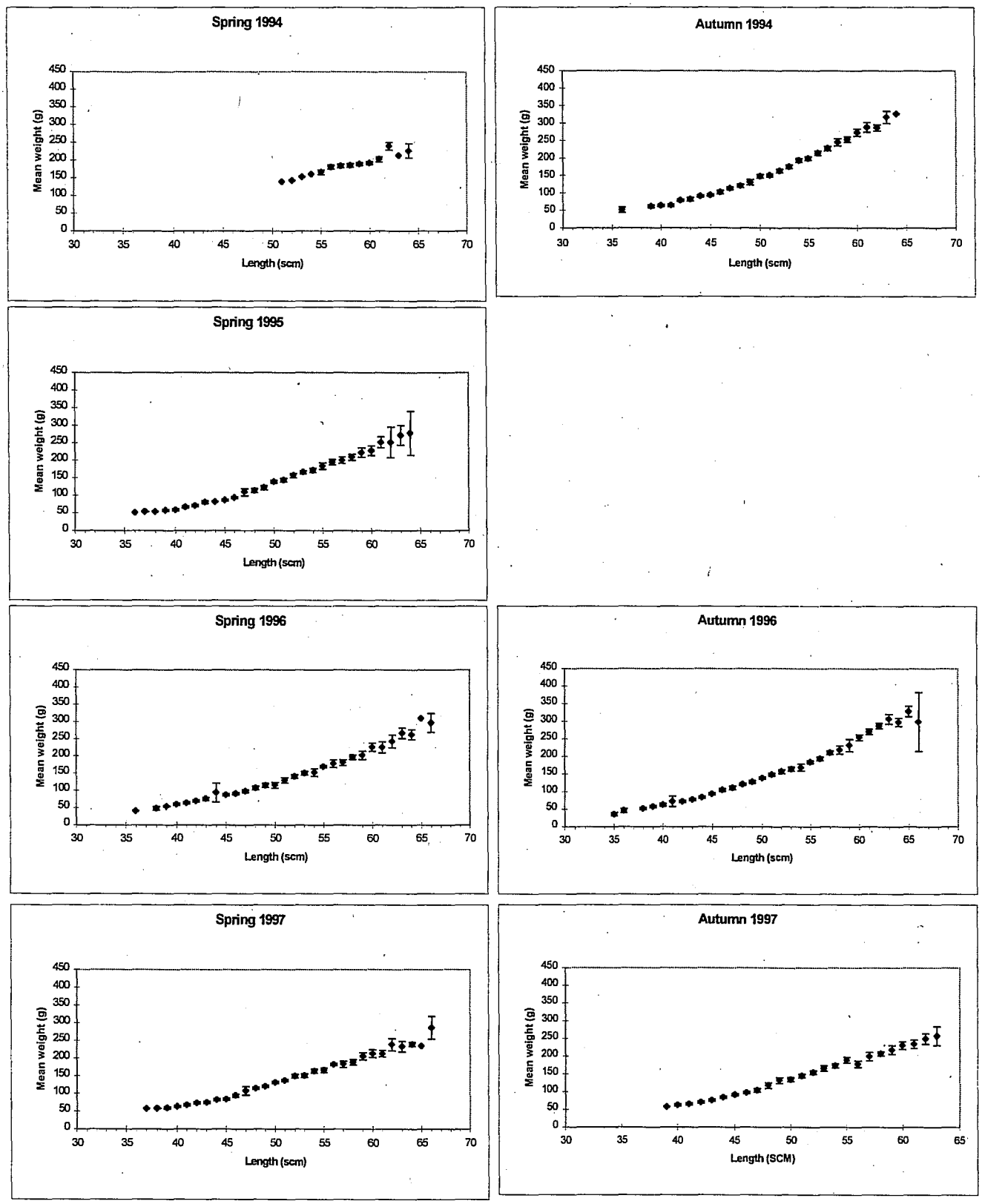

Figure 60. Mean weight in gram (g) per length group in the spring and autumn seasons for herring in the Sound. Data is based on experimental gillnet catches. Confidence limits = 2 * Std.Err.

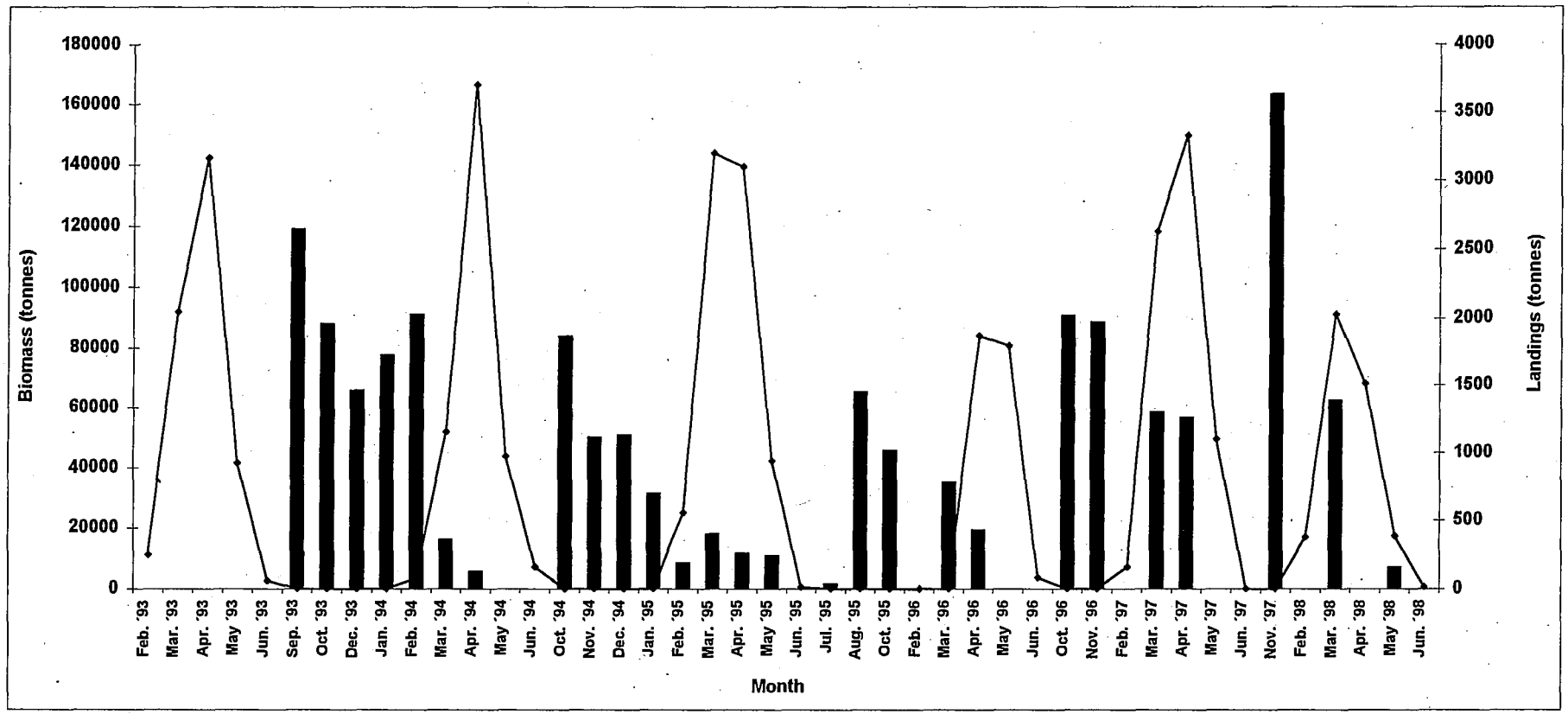

Figure 61. **Total biomass (tonnes) in the Sound (bars) and German landings (tonnes) from commercial fishery at the spawning site at Griefswalder Bodden (line).**

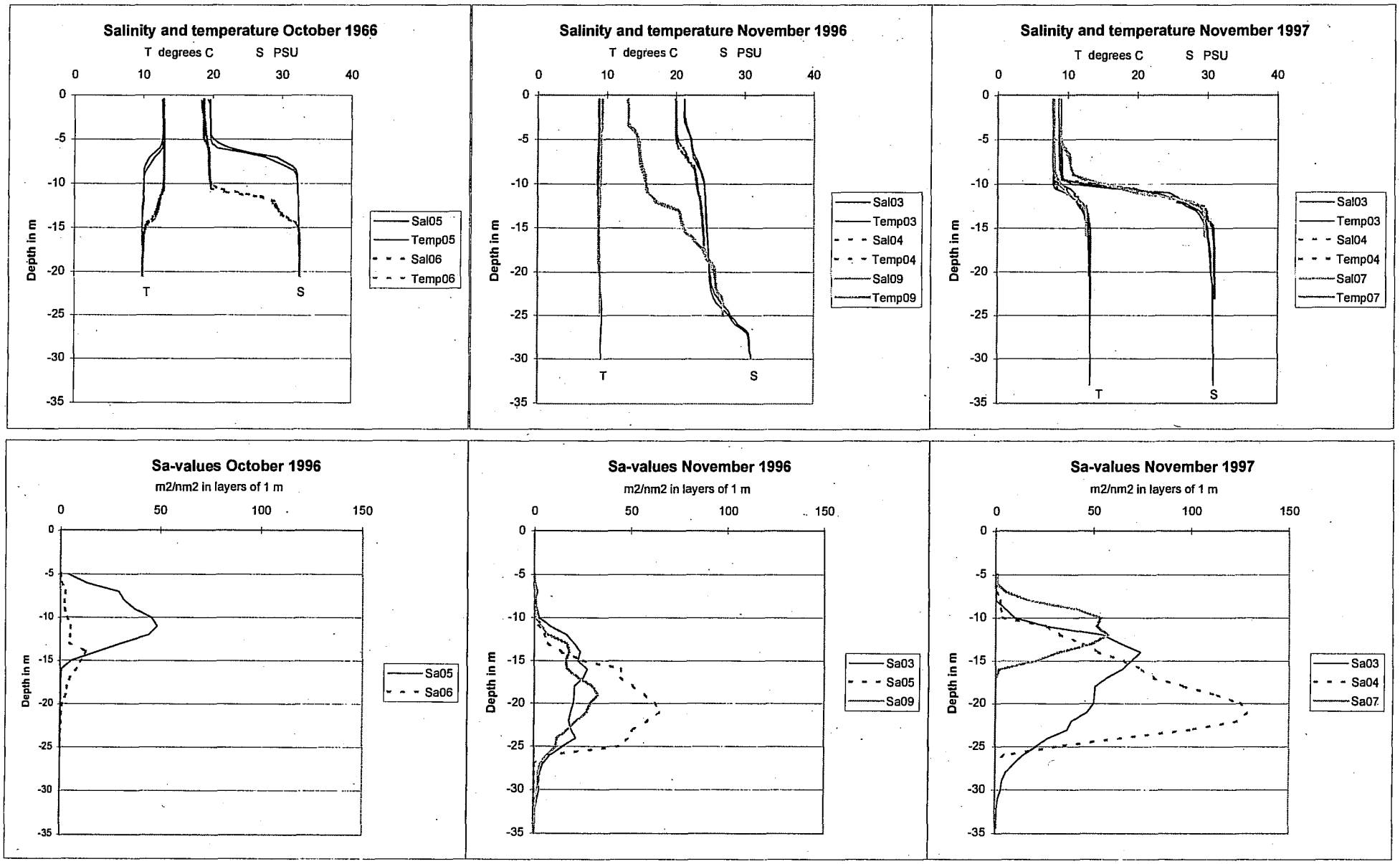

Figure 62. Comparison between salinity-temperature profiles (CTD) and acoustic density profiles (Sa values) at selected positions in the area north of the island of Ven in the Sound. The profiles cover the water column from sea surface to sea bottom at the respective localities.

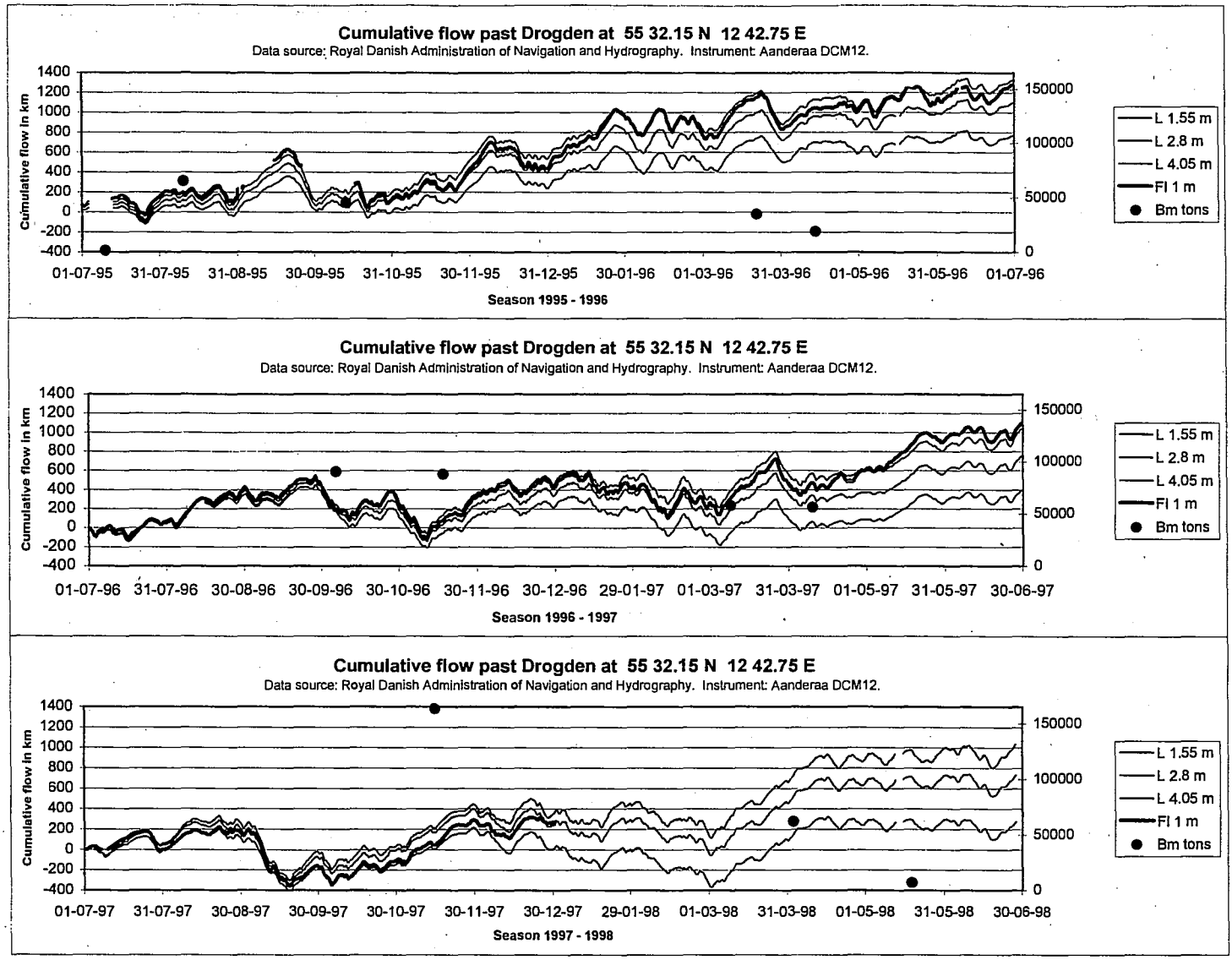

Figure 63 Comparison between the herring biomass estimates (Bm) in tons and the cumulative water flow in km past Drogden in different depth strata in the direction 42 degr N in the sill area of the Sound and the cumulative flow at 0-1.5m at Flinten in the direction 42 degr N multiplied by 0.59. Gaps in one series has been bridged by using data from the other assuming the relation cumulative flow Drogden = cumulative flow Flinten*0.59.

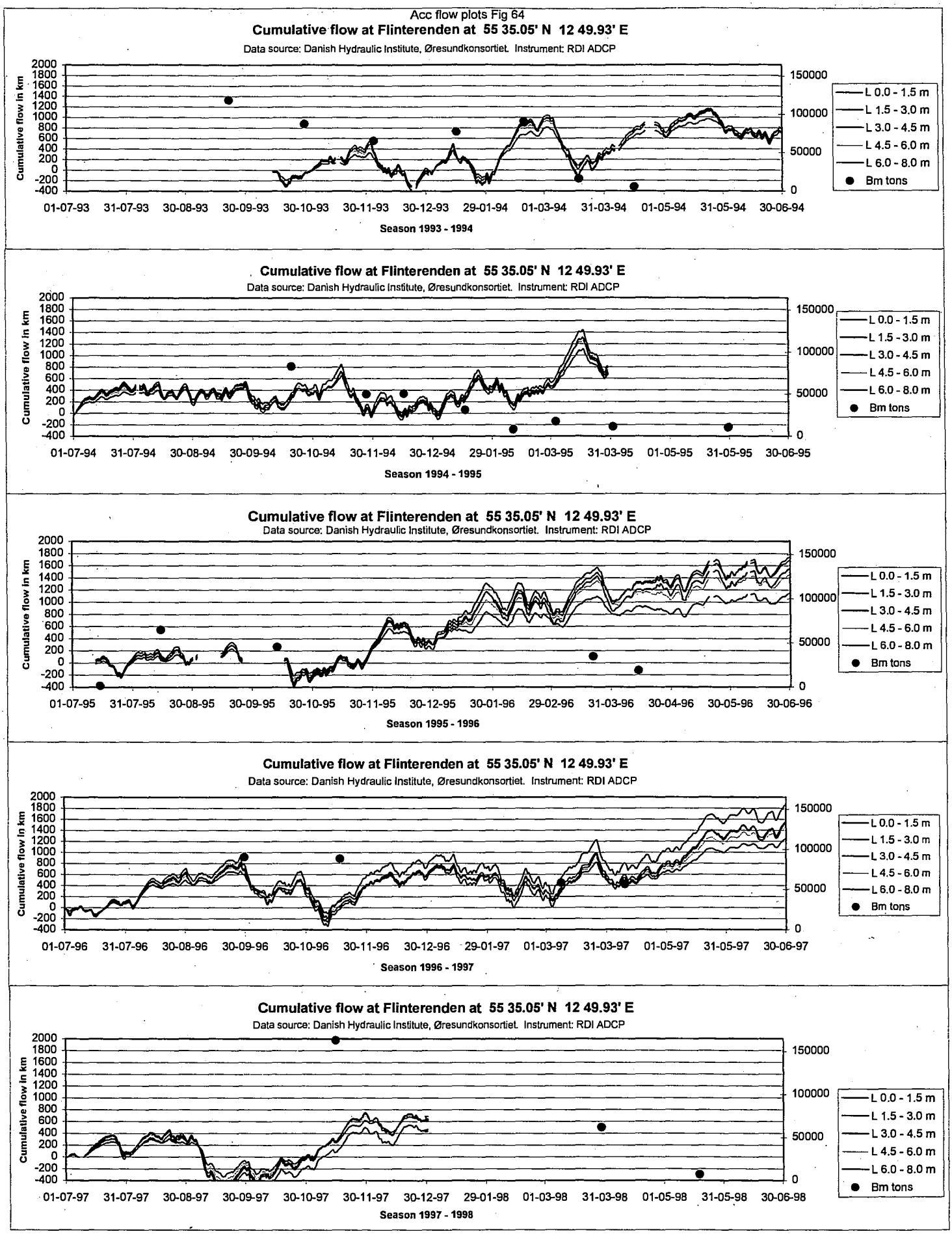

Figure 64 Comparison between the herring biomass estimates (Bm) in tons and the cumulative water flow in km past Flinterenden in different depth strata in the direction 42 degr. N in the Sound.

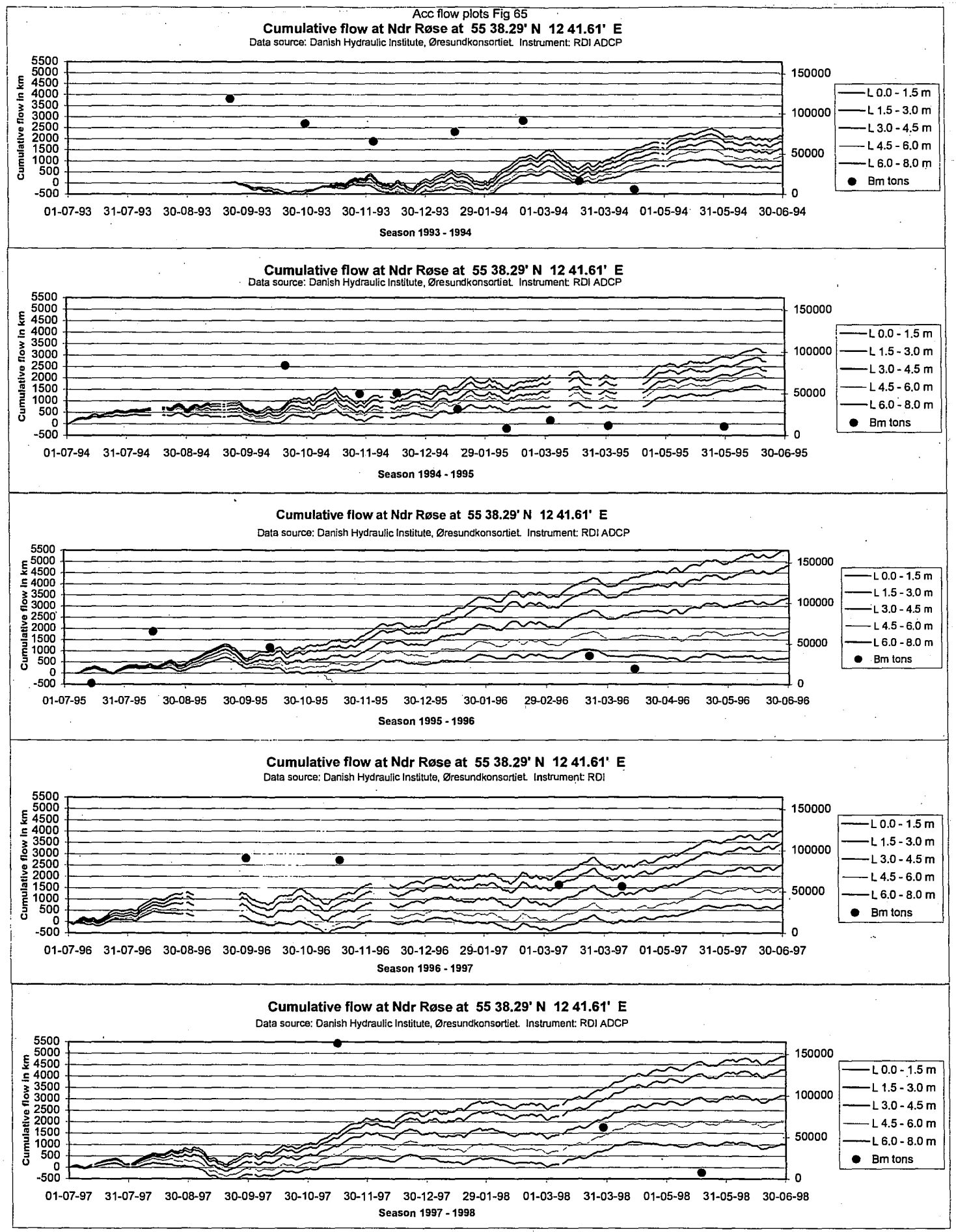

Figure 65 Comparison between the herring biomass estimates (Bm) in tons and the cumulative water flow in km past Ndr. Røse in different depth strata in the direction 0 degr. N in the Sound.

APPENDIX 1: FISHERY DATA

Appendix 1, Table 1
Overlapping experimental gillnet fishery with R/V Solea trawl fishery used in raising the catch. Furhtermore, a station overview of the trawl fishery data used from the July 1995 R/V Dana survey and from the R/V Argos survey in the spring 1998.

Year	Area	Stratum area	Fishery stratum	Time	Fishery	Survey	Stations
1993	Northern Sound	G1-G4	G3	Oct. 93	Trawl	Solea1093	29
		G1-G4	G2-G3	Oct. 93	Gillnet	S0293	3707, 3714, 3716
	Southern Sound	G5-G13	G6(-G5)	Oct. 93	Trawl	Solea1093	30
		G5-G13	G5-G6	Oct. 93	Gillnet	S0293	3699, 3701, 3724, 3726
1994	Northern Sound	G1-G5	G2-G3	Oct. 94	Trawl	Solea1094	59
		G1-G5	G2-G3	Oct. 94	Gillnet	S1094	530, 531, 538, 601
	Southern Sound	G6-G13	G6	Oct. 94	Trawl	Solea1094	60
		G6-G13	G6(-G7)	Oct. 94	Gillnet	S1094	516
1995	Northern Sound	G1-G5	G3	Oct. 95	Trawl	Solea1095	45, 48
		G1-G5	G3(-G2)	Oct. 95	Gillnet	S0995	725, 728
	Southern Sound	G6-G13	G6	Oct. 95	Trawl	Solea1095	46, 47
		G6-G13	G6	Oct. 95	Gillnet	S0995	721, 730
1996	Northern Sound	G1-G5	G2(-G3)	(Sept.-) Oct. 96	Trawl	Solea1096	3
		G1-G5	G2	(Sept.-) Oct. 96	Gillnet	S1096	553, 554
	Southern Sound	G6-G13	G6	(Sept.-) Oct. 96	Trawl	Solea1096	2
		G6-G13	G6	(Sept.-) Oct. 96	Gillnet	S1096	548, 559
1997	Northern Sound	G1-G5	G3	Oct. 97	Trawl	Solea0997	37
		G1-G5	G3	Oct. 97	Gillnet	S1197	619, 622
	Southern Sound	G6-G13	G7(-G8)	Nov. 97	Trawl	Solea0997	35
		G6-G13	G7(-G8)	Nov. 97	Gillnet	S1197	628, 631
1995	Northern Sound	G1-G5	G2-G3	Jul. 95	Trawl	S0695	63
	Southern Sound	G6-G13	G6-G7	Jul. 95	Trawl	S0695	65
1998	Northern Sound	G1-G5	G3	Feb. 98	Trawl	Argos0198	48
	Southern Sound	G6-G13	G6-G7	Feb. 98	Trawl	Argos0198	47

Appendiks 1, Table 2.
Biological data used to evaluate the hydroacoustic data. The biological data is number of fish per fish species for each survey divided by geographical stratum

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1993	SUND01	G01	Herring	51850644
1993	SUND01	G01	Cod	88269
1993	SUND01	G01	Whiting	77235
1993	SUND01	G02	Herring	145780933
1993	SUND01	G02	Cod	248172
1993	SUND01	G02	Whiting	217151
1993	SUND01	G03	Herring	150785577
1993	SUND01	G03	Cod	319961
1993	SUND01	G03	Whiting	279966
1993	SUND01	G04	Herring	165003752
1993	SUND01	G04	Cod	372424
1993	SUND01	G04	Whiting	325871
1993	SUND01	G05	Herring	73095197
1993	SUND01	G05	Cod	321257
1993	SUND01	G05	Whiting	14603
1993	SUND01	G06	Herring	116884963
1993	SUND01	G06	Cod	218329
1993	SUND01	G06	Whiting	9924
1993	SUND01	G07	Herring	148263216
1993	SUND01	G07	Cod	353071
1993	SUND01	G07	Whiting	16049
1993	SUND01	G08	Herring	76309123
1993	SUND01	G08	Cod	181721
1993	SUND01	G08	Whiting	8260
1993	SUND01	G09	Herring	96146636
1993	SUND01	G09	Cod	517742
1993	SUND01	G09	Whiting	23534
1993	SUND01	G10	Herring	79832295
1993	SUND01	G10	Cod	458825
1993	SUND01	G10	Whiting	20856
1993	SUND01	G11	Herring	28517068
1993	SUND01	G11	Cod	163898
1993	SUND01	G11	Whiting	7450
1993	SUND01	G12	Herring	18394647
1993	SUND01	G12	Cod	48224
1993	SUND01	G12	Whiting	2192
1993	SUND02	G01	Herring	29658849
1993	SUND02	G01	Cod	46546
1993	SUND02	G01	Whiting	40727
1993	SUND02	G02	Herring	83433111
1993	SUND02	G02	Cod	124455
1993	SUND02	G02	Whiting	108898
1993	SUND02	G03	Herring	110822929
1993	SUND02	G03	Cod	242858
1993	SUND02	G03	Whiting	212501
1993	SUND02	G04	Herring	79112835
1993	SUND02	G04	Cod	169065

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1993	SUND02	G04	Whiting	147932
1993	SUND02	G05	Herring	83945969
1993	SUND02	G05	Cod	241234
1993	SUND02	G05	Whiting	10965
1993	SUND02	G06	Herring	80164996
1993	SUND02	G06	Cod	337442
1993	SUND02	G06	Whiting	15338
1993	SUND02	G07	Herring	76354579
1993	SUND02	G07	Cod	245372
1993	SUND02	G07	Whiting	11153
1993	SUND02	G08	Herring	77505913
1993	SUND02	G08	Cod	186804
1993	SUND02	G08	Whiting	8491
1993	SUND02	G09	Herring	88433440
1993	SUND02	G09	Cod	494009
1993	SUND02	G09	Whiting	22455
1993	SUND02	G10	Herring	34212836
1993	SUND02	G10	Cod	191121
1993	SUND02	G10	Whiting	8687
1993	SUND02	G11	Herring	44067945
1993	SUND02	G11	Cod	246173
1993	SUND02	G11	Whiting	11190
1993	SUND02	G12	Herring	4025276
1993	SUND02	G12	Cod	22486
1993	SUND02	G12	Whiting	1022
1993	SUND03	G02	Herring	115226611
1993	SUND03	G02	Cod	257184
1993	SUND03	G02	Whiting	225036
1993	SUND03	G03	Herring	131476653
1993	SUND03	G03	Cod	293454
1993	SUND03	G03	Whiting	256772
1993	SUND03	G04	Herring	61941118
1993	SUND03	G04	Cod	138252
1993	SUND03	G04	Whiting	120970
1993	SUND03	G05	Herring	42790427
1993	SUND03	G05	Cod	281065
1993	SUND03	G05	Whiting	12776
1993	SUND03	G06	Herring	47373491
1993	SUND03	G06	Cod	311169
1993	SUND03	G06	Whiting	14144
1993	SUND03	G07	Herring	86314139
1993	SUND03	G07	Cod	505806
1993	SUND03	G07	Whiting	22991
1993	SUND03	G08	Herring	12960728
1993	SUND03	G08	Cod	66784
1993	SUND03	G08	Whiting	3036
1993	SUND03	G09	Herring	88600880
1993	SUND03	G09	Cod	456544
1993	SUND03	G09	Whiting	20752
1993	SUND03	G10	Herring	54790291
1993	SUND03	G10	Cod	282324

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1993	SUND03	G10	Whiting	12833
1993	SUND03	G11	Herring	35076537
1993	SUND03	G11	Cod	144594
1993	SUND03	G11	Whiting	6572
1993	SUND03	G12	Herring	4022727
1993	SUND03	G12	Cod	16583
1993	SUND03	G12	Whiting	754
1994	SUND04	G02	Herring	105820304
1994	SUND04	G02	Cod	274876
1994	SUND04	G02	Whiting	240516
1994	SUND04	G03	Herring	198846123
1994	SUND04	G03	Cod	516517
1994	SUND04	G03	Whiting	451952
1994	SUND04	G04	Herring	93300275
1994	SUND04	G04	Cod	330742
1994	SUND04	G04	Whiting	289399
1994	SUND04	G05	Herring	56598402
1994	SUND04	G05	Cod	32436
1994	SUND04	G05	Whiting	1474
1994	SUND04	G06	Herring	56977855
1994	SUND04	G06	Cod	205164
1994	SUND04	G06	Whiting	9326
1994	SUND04	G07	Herring	64095563
1994	SUND04	G07	Cod	283790
1994	SUND04	G07	Whiting	12900
1994	SUND04	G08	Herring	42575341
1994	SUND04	G08	Cod	150582
1994	SUND04	G08	Whiting	6845
1994	SUND04	G09	Herring	23988563
1994	SUND04	G09	Cod	10140
1994	SUND04	G09	Whiting	461
1994	SUND04	G10	Herring	14377952
1994	SUND04	G10	Cod	36262
1994	SUND04	G10	Whiting	1648
1994	SUND04	G11	Herring	17315161
1994	SUND04	G11	Cod	43670
1994	SUND04	G11	Whiting	1985
1994	SUND04	G12	Herring	510552
1994	SUND04	G12	Cod	1288
1994	SUND04	G12	Whiting	59
1994	SUND05	G02	Herring	29840215
1994	SUND05	G02	Cod	77512
1994	SUND05	G02	Whiting	67823
1994	SUND05	G03	Herring	275555394
1994	SUND05	G03	Cod	715775
1994	SUND05	G03	Whiting	626303
1994	SUND05	G04	Herring	277018224
1994	SUND05	G04	Cod	982008
1994	SUND05	G04	Whiting	859257
1994	SUND05	G05	Herring	90740794
1994	SUND05	G05	Cod	52002

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1994	SUND05	G05	Whiting	2364
1994	SUND05	G06	Herring	98579433
1994	SUND05	G06	Cod	354961
1994	SUND05	G06	Whiting	16135
1994	SUND05	G07	Herring	28498047
1994	SUND05	G07	Cod	126178
1994	SUND05	G07	Whiting	5735
1994	SUND05	G08	Herring	456568
1994	SUND05	G08	Cod	1246
1994	SUND05	G08	Whiting	57
1994	SUND05	G09	Herring	23759984
1994	SUND05	G09	Cod	10044
1994	SUND05	G09	Whiting	457
1994	SUND05	G10	Herring	11176793
1994	SUND05	G10	Cod	28188
1994	SUND05	G10	Whiting	1281
1994	SUND05	G11	Herring	660582
1994	SUND05	G11	Cod	1666
1994	SUND05	G11	Whiting	76
1994	SUND05	G12	Herring	222357
1994	SUND05	G12	Cod	561
1994	SUND05	G12	Whiting	25
1994	SUND06	G02	Herring	19555337
1994	SUND06	G02	Cod	67341
1994	SUND06	G02	Whiting	58924
1994	SUND06	G03	Herring	29448438
1994	SUND06	G03	Cod	112321
1994	SUND06	G03	Whiting	98281
1994	SUND06	G04	Herring	18813579
1994	SUND06	G04	Cod	96904
1994	SUND06	G04	Whiting	84791
1994	SUND06	G05	Herring	14835471
1994	SUND06	G05	Cod	57958
1994	SUND06	G05	Whiting	2634
1994	SUND06	G06	Herring	17963616
1994	SUND06	G06	Cod	119304
1994	SUND06	G06	Whiting	5423
1994	SUND06	G07	Herring	31201528
1994	SUND06	G07	Cod	87972
1994	SUND06	G07	Whiting	3999
1994	SUND07	G01	Herring	1360403
1994	SUND07	G01	Cod	3612
1994	SUND07	G01	Whiting	3160
1994	SUND07	G02	Herring	7181459
1994	SUND07	G02	Cod	19065
1994	SUND07	G02	Whiting	16682
1994	SUND07	G03	Herring	17226500
1994	SUND07	G03	Cod	50151
1994	SUND07	G03	Whiting	43882
1994	SUND07	G04	Herring	8442136
1994	SUND07	G04	Cod	31022

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1994	SUND07	G04	Whiting	27144
1994	SUND07	G05	Herring	3628562
1994	SUND07	G05	Cod	18380
1994	SUND07	G05	Whiting	835
1994	SUND07	G06	Herring	5086225
1994	SUND07	G06	Cod	25764
1994	SUND07	G06	Whiting	1171
1994	SUND07	G07	Herring	3860947
1994	SUND07	G07	Cod	19232
1994	SUND07	G07	Whiting	874
1994	SUND07	G08	Herring	1825979
1994	SUND07	G08	Cod	9659
1994	SUND07	G08	Whiting	439
1994	SUND07	G09	Herring	1025349
1994	SUND07	G09	Cod	3855
1994	SUND07	G09	Whiting	175
1994	SUND07	G10	Herring	758566
1994	SUND07	G10	Cod	3064
1994	SUND07	G10	Whiting	139
1994	SUND07	G11	Herring	423036
1994	SUND07	G11	Cod	1709
1994	SUND07	G11	Whiting	78
1994	SUND07	G12	Herring	154875
1994	SUND07	G12	Cod	681
1994	SUND07	G12	Whiting	31
1994	SUND10	G01	Herring	17624237
1994	SUND10	G01	Cod	138753
1994	SUND10	G01	Whiting	8952
1994	SUND10	G02	Herring	47221469
1994	SUND10	G02	Cod	383877
1994	SUND10	G02	Whiting	24766
1994	SUND10	G03	Herring	55728787
1994	SUND10	G03	Cod	1617232
1994	SUND10	G03	Whiting	104338
1994	SUND10	G04	Herring	73533359
1994	SUND10	G04	Cod	1731289
1994	SUND10	G04	Whiting	111696
1994	SUND10	G05	Herring	55265842
1994	SUND10	G05	Cod	722129
1994	SUND10	G05	Whiting	46589
1994	SUND10	G06	Sprat	4894321
1994	SUND10	G06	Herring	58299754
1994	SUND10	G06	Cod	887677
1994	SUND10	G07	Sprat	4999657
1994	SUND10	G07	Herring	59554489
1994	SUND10	G07	Cod	906781
1994	SUND10	G08	Sprat	8175514
1994	SUND10	G08	Herring	50410740
1994	SUND10	G08	Cod	1482783
1994	SUND10	G09	Sprat	7104073
1994	SUND10	G09	Herring	73670646

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1994	SUND10	G09	Cod	1288457
1994	SUND10	G10	Sprat	1269564
1994	SUND10	G10	Herring	17302134
1994	SUND10	G10	Cod	230259
1994	SUND10	G11	Sprat	895477
1994	SUND10	G11	Herring	4298039
1994	SUND10	G11	Cod	162412
1994	SUND10	G12	Sprat	18807
1994	SUND10	G12	Herring	126176
1994	SUND10	G12	Cod	3411
1994	SUND10	G13	Sprat	11404
1994	SUND10	G13	Herring	76513
1994	SUND10	G13	Cod	2068
1994	SUND11	G01	Herring	2653225
1994	SUND11	G01	Cod	35221
1994	SUND11	G01	Whiting	2272
1994	SUND11	G02	Herring	8940906
1994	SUND11	G02	Cod	118690
1994	SUND11	G02	Whiting	7657
1994	SUND11	G03	Herring	9749015
1994	SUND11	G03	Cod	108136
1994	SUND11	G03	Whiting	6977
1994	SUND11	G04	Herring	29749107
1994	SUND11	G04	Cod	325634
1994	SUND11	G04	Whiting	21009
1994	SUND11	G05	Herring	29807944
1994	SUND11	G05	Cod	1403613
1994	SUND11	G05	Whiting	90556
1994	SUND11	G06	Sprat	9588246
1994	SUND11	G06	Herring	48204370
1994	SUND11	G06	Cod	1739008
1994	SUND11	G07	Sprat	10684364
1994	SUND11	G07	Herring	52592079
1994	SUND11	G07	Cod	1937809
1994	SUND11	G08	Sprat	11311295
1994	SUND11	G08	Herring	55678046
1994	SUND11	G08	Cod	2051515
1994	SUND11	G09	Sprat	1908473
1994	SUND11	G09	Herring	31525574
1994	SUND11	G09	Cod	346137
1994	SUND11	G10	Sprat	2885674
1994	SUND11	G10	Herring	44938067
1994	SUND11	G10	Cod	523371
1994	SUND11	G11	Sprat	674530
1994	SUND11	G11	Herring	5683448
1994	SUND11	G11	Cod	122339
1994	SUND11	G12	Sprat	50689
1994	SUND11	G12	Herring	356060
1994	SUND11	G12	Cod	9193
1994	SUND11	G13	Sprat	16455
1994	SUND11	G13	Herring	115584

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1994	SUND11	G13	Cod	2984
1994	SUND12	G01	Herring	17792552
1994	SUND12	G01	Cod	576685
1994	SUND12	G01	Whiting	37205
1994	SUND12	G02	Herring	22138437
1994	SUND12	G02	Cod	717542
1994	SUND12	G02	Whiting	46293
1994	SUND12	G03	Herring	56286974
1994	SUND12	G03	Cod	665758
1994	SUND12	G03	Whiting	42952
1994	SUND12	G04	Herring	39738300
1994	SUND12	G04	Cod	1480218
1994	SUND12	G04	Whiting	95498
1994	SUND12	G05	Herring	26127614
1994	SUND12	G05	Cod	724517
1994	SUND12	G05	Whiting	46743
1994	SUND12	G06	Sprat	3224091
1994	SUND12	G06	Herring	27843229
1994	SUND12	G06	Cod	584749
1994	SUND12	G07	Sprat	9347433
1994	SUND12	G07	Herring	33239443
1994	SUND12	G07	Cod	1695332
1994	SUND12	G08	Sprat	2816985
1994	SUND12	G08	Herring	33111003
1994	SUND12	G08	Cod	510913
1994	SUND12	G09	Sprat	2733045
1994	SUND12	G09	Herring	27911338
1994	SUND12	G09	Cod	495689
1994	SUND12	G10	Sprat	2297649
1994	SUND12	G10	Herring	21371925
1994	SUND12	G10	Cod	416722
1994	SUND12	G11	Sprat	1022495
1994	SUND12	G11	Herring	9510890
1994	SUND12	G11	Cod	185449
1994	SUND12	G12	Sprat	24997
1994	SUND12	G12	Herring	232512
1994	SUND12	G12	Cod	4534
1994	SUND12	G13	Sprat	12893
1994	SUND12	G13	Herring	119922
1994	SUND12	G13	Cod	2338
1995	SUND01	G01	Herring	4861423
1995	SUND01	G01	Cod	136322
1995	SUND01	G01	Whiting	8795
1995	SUND01	G02	Herring	12230041
1995	SUND01	G02	Cod	342949
1995	SUND01	G02	Whiting	22126
1995	SUND01	G03	Herring	27806086
1995	SUND01	G03	Cod	472078
1995	SUND01	G03	Whiting	30457
1995	SUND01	G04	Herring	16008128
1995	SUND01	G04	Cod	366526

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1995	SUND01	G04	Whiting	23647
1995	SUND01	G05	Herring	26905312
1995	SUND01	G05	Cod	1017385
1995	SUND01	G05	Whiting	65638
1995	SUND01	G06	Sprat	1432692
1995	SUND01	G06	Herring	37820866
1995	SUND01	G06	Cod	259846
1995	SUND01	G07	Sprat	5845100
1995	SUND01	G07	Herring	24983146
1995	SUND01	G07	Cod	1060118
1995	SUND01	G08	Sprat	576719
1995	SUND01	G08	Herring	18396700
1995	SUND01	G08	Cod	104599
1995	SUND01	G09	Sprat	1340589
1995	SUND01	G09	Herring	34356210
1995	SUND01	G09	Cod	243141
1995	SUND01	G10	Sprat	64104
1995	SUND01	G10	Herring	956724
1995	SUND01	G10	Cod	11626
1995	SUND01	G11	Sprat	43559
1995	SUND01	G11	Herring	650103
1995	SUND01	G11	Cod	7900
1995	SUND01	G12	Sprat	35269
1995	SUND01	G12	Herring	526377
1995	SUND01	G12	Cod	6397
1995	SUND02	G01	Herring	1609466
1995	SUND02	G01	Cod	12135
1995	SUND02	G01	Whiting	783
1995	SUND02	G02	Herring	9322735
1995	SUND02	G02	Cod	177608
1995	SUND02	G02	Whiting	11459
1995	SUND02	G03	Herring	10348660
1995	SUND02	G03	Cod	496675
1995	SUND02	G03	Whiting	32044
1995	SUND02	G04	Herring	3871027
1995	SUND02	G04	Cod	73189
1995	SUND02	G04	Whiting	4722
1995	SUND02	G05	Herring	5449083
1995	SUND02	G05	Cod	123629
1995	SUND02	G05	Whiting	7976
1995	SUND02	G06	Sprat	809137
1995	SUND02	G06	Herring	4620672
1995	SUND02	G06	Cod	146752
1995	SUND02	G07	Sprat	142755
1995	SUND02	G07	Herring	8312235
1995	SUND02	G07	Cod	25891
1995	SUND02	G08	Sprat	117728
1995	SUND02	G08	Herring	5751682
1995	SUND02	G08	Cod	21352
1995	SUND02	G09	Sprat	1774212
1995	SUND02	G09	Herring	9012989

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1995	SUND02	G09	Cod	321787
1995	SUND02	G10	Sprat	402541
1995	SUND02	G10	Herring	1953240
1995	SUND02	G10	Cod	73008
1995	SUND02	G11	Sprat	7419
1995	SUND02	G11	Herring	479048
1995	SUND02	G11	Cod	1346
1995	SUND02	G12	Sprat	1254
1995	SUND02	G12	Herring	80963
1995	SUND02	G12	Cod	227
1995	SUND03	G01	Herring	14336920
1995	SUND03	G01	Cod	108098
1995	SUND03	G01	Whiting	6974
1995	SUND03	G02	Herring	10944544
1995	SUND03	G02	Cod	208505
1995	SUND03	G02	Whiting	13452
1995	SUND03	G03	Herring	16706314
1995	SUND03	G03	Cod	801804
1995	SUND03	G03	Whiting	51729
1995	SUND03	G04	Herring	28234552
1995	SUND03	G04	Cod	533824
1995	SUND03	G04	Whiting	34440
1995	SUND03	G05	Herring	9057161
1995	SUND03	G05	Cod	327593
1995	SUND03	G05	Whiting	21135
1995	SUND03	G06	Sprat	1713544
1995	SUND03	G06	Herring	10655869
1995	SUND03	G06	Cod	310783
1995	SUND03	G07	Sprat	291424
1995	SUND03	G07	Herring	16968817
1995	SUND03	G07	Cod	52855
1995	SUND03	G08	Sprat	110766
1995	SUND03	G08	Herring	5411513
1995	SUND03	G08	Cod	20089
1995	SUND03	G09	Sprat	800205
1995	SUND03	G09	Herring	4065036
1995	SUND03	G09	Cod	145132
1995	SUND03	G10	Sprat	814717
1995	SUND03	G10	Herring	3953229
1995	SUND03	G10	Cod	147764
1995	SUND03	G11	Sprat	101541
1995	SUND03	G11	Herring	6556374
1995	SUND03	G11	Cod	18416
1995	SUND03	G12	Sprat	6948
1995	SUND03	G12	Herring	448618
1995	SUND03	G12	Cod	1260
1995	SUND04	G01	Herring	2170835
1995	SUND04	G01	Cod	16368
1995	SUND04	G01	Whiting	1056
1995	SUND04	G02	Herring	4106296
1995	SUND04	G02	Cod	78229

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1995	SUND04	G02	Whiting	5047
1995	SUND04	G03	Herring	7890945
1995	SUND04	G03	Cod	378719
1995	SUND04	G03	Whiting	24433
1995	SUND04	G04	Herring	6400315
1995	SUND04	G04	Cod	121009
1995	SUND04	G04	Whiting	7807
1995	SUND04	G05	Herring	7177970
1995	SUND04	G05	Cod	162855
1995	SUND04	G05	Whiting	10507
1995	SUND04	G06	Sprat	2728802
1995	SUND04	G06	Herring	15583137
1995	SUND04	G06	Cod	494919
1995	SUND04	G07	Sprat	5069659
1995	SUND04	G07	Herring	29217295
1995	SUND04	G07	Cod	919478
1995	SUND04	G08	Sprat	107572
1995	SUND04	G08	Herring	5255507
1995	SUND04	G08	Cod	19510
1995	SUND04	G09	Sprat	918426
1995	SUND04	G09	Herring	4665602
1995	SUND04	G09	Cod	166574
1995	SUND04	G10	Sprat	557614
1995	SUND04	G10	Herring	2705694
1995	SUND04	G10	Cod	101134
1995	SUND04	G11	Sprat	18367
1995	SUND04	G11	Herring	1185961
1995	SUND04	G11	Cod	3331
1995	SUND04	G12	Sprat	8252
1995	SUND04	G12	Herring	532797
1995	SUND04	G12	Cod	1497
1995	SUND05	G01	Herring	2136312
1995	SUND05	G01	Cod	16107
1995	SUND05	G01	Whiting	1039
1995	SUND05	G02	Herring	6065633
1995	SUND05	G02	Cod	115557
1995	SUND05	G02	Whiting	7455
1995	SUND05	G03	Herring	5057785
1995	SUND05	G03	Cod	242744
1995	SUND05	G03	Whiting	15661
1995	SUND05	G04	Herring	5740447
1995	SUND05	G04	Cod	108533
1995	SUND05	G04	Whiting	7002
1995	SUND05	G05	Herring	13610428
1995	SUND05	G05	Cod	308795
1995	SUND05	G05	Whiting	19922
1995	SUND05	G06	Sprat	1995997
1995	SUND05	G06	Herring	11398373
1995	SUND05	G06	Cod	362011
1995	SUND05	G07	Sprat	1966502
1995	SUND05	G07	Herring	11333279

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1995	SUND05	G07	Cod	356662
1995	SUND05	G08	Sprat	161192
1995	SUND05	G08	Herring	7875116
1995	SUND05	G08	Cod	29235
1995	SUND05	G09	Sprat	1555061
1995	SUND05	G09	Herring	7899704
1995	SUND05	G09	Cod	282039
1995	SUND05	G10	Sprat	2360654
1995	SUND05	G10	Herring	11454534
1995	SUND05	G10	Cod	428149
1995	SUND05	G12	Sprat	345
1995	SUND05	G12	Herring	22284
1995	SUND05	G12	Cod	63
1995	SUND05	G13	Sprat	1625
1995	SUND05	G13	Herring	104946
1995	SUND05	G13	Cod	295
1995	SUND06	G01	Sprat	228086
1995	SUND06	G01	Herring	1827210
1995	SUND06	G01	LuMackerelpsuck	348
1995	SUND06	G01	Cod	253564
1995	SUND06	G01	Whiting	1043
1995	SUND06	G02	Sprat	415467
1995	SUND06	G02	Herring	3328326
1995	SUND06	G02	LuMackerelpsuck	634
1995	SUND06	G02	Cod	461876
1995	SUND06	G02	Whiting	1901
1995	SUND06	G03	Sprat	374804
1995	SUND06	G03	Herring	3002576
1995	SUND06	G03	LuMackerelpsuck	572
1995	SUND06	G03	Cod	416671
1995	SUND06	G03	Whiting	1715
1995	SUND06	G04	Sprat	2373341
1995	SUND06	G04	Garfish	34
1995	SUND06	G04	Mackerel	546
1995	SUND06	G04	Herring	2273584
1995	SUND06	G04	LuMackerelpsuck	375
1995	SUND06	G04	Cod	335241
1995	SUND06	G04	Whiting	3855
1995	SUND06	G05	Sprat	5567995
1995	SUND06	G05	Garfish	80
1995	SUND06	G05	Mackerel	1280
1995	SUND06	G05	Herring	5333957
1995	SUND06	G05	LuMackerelpsuck	881
1995	SUND06	G05	Cod	786495
1995	SUND06	G05	Whiting	9044
1995	SUND06	G06	Sprat	21789486
1995	SUND06	G06	Garfish	349
1995	SUND06	G06	Mackerel	5590
1995	SUND06	G06	Herring	3087877
1995	SUND06	G06	Cod	630643
1995	SUND06	G06	Whiting	27951

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1995	SUND06	G07	Sprat	19601252
1995	SUND06	G07	Garfish	314
1995	SUND06	G07	Mackerel	5029
1995	SUND06	G07	Herring	2777774
1995	SUND06	G07	Cod	567310
1995	SUND06	G07	Whiting	25144
1995	SUND06	G08	Sprat	7630565
1995	SUND06	G08	Garfish	122
1995	SUND06	G08	Mackerel	1958
1995	SUND06	G08	Herring	1081359
1995	SUND06	G08	Cod	220848
1995	SUND06	G08	Whiting	9788
1995	SUND06	G09	Sprat	5332608
1995	SUND06	G09	Garfish	86
1995	SUND06	G09	Mackerel	1368
1995	SUND06	G09	Herring	755706
1995	SUND06	G09	Cod	154339
1995	SUND06	G09	Whiting	6841
1995	SUND06	G10	Sprat	4831708
1995	SUND06	G10	Garfish	77
1995	SUND06	G10	Mackerel	1240
1995	SUND06	G10	Herring	684721
1995	SUND06	G10	Cod	139842
1995	SUND06	G10	Whiting	6198
1995	SUND06	G11	Sprat	1150781
1995	SUND06	G11	Garfish	18
1995	SUND06	G11	Mackerel	295
1995	SUND06	G11	Herring	163082
1995	SUND06	G11	Cod	33307
1995	SUND06	G11	Whiting	1476
1995	SUND06	G12	Sprat	1563794
1995	SUND06	G12	Garfish	25
1995	SUND06	G12	Mackerel	401
1995	SUND06	G12	Herring	221612
1995	SUND06	G12	Cod	45260
1995	SUND06	G12	Whiting	2006
1995	SUND06	G13	Sprat	758731
1995	SUND06	G13	Garfish	12
1995	SUND06	G13	Mackerel	195
1995	SUND06	G13	Herring	107523
1995	SUND06	G13	Cod	21960
1995	SUND06	G13	Whiting	973
1995	SUND07	G01	Sprat	2985294
1995	SUND07	G01	Herring	52405561
1995	SUND07	G01	Cod	598820
1995	SUND07	G01	Whiting	924649
1995	SUND07	G02	Sprat	2723922
1995	SUND07	G02	Herring	37291214
1995	SUND07	G02	Cod	546391
1995	SUND07	G02	Whiting	843693
1995	SUND07	G03	Sprat	5927701

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1995	SUND07	G03	Herring	65711800
1995	SUND07	G03	Cod	1189037
1995	SUND07	G03	Whiting	1836014
1995	SUND07	G04	Sprat	3267036
1995	SUND07	G04	Herring	50383664
1995	SUND07	G04	Cod	655335
1995	SUND07	G04	Whiting	1011914
1995	SUND07	G05	Sprat	864224
1995	SUND07	G05	Herring	33954581
1995	SUND07	G05	Cod	173355
1995	SUND07	G05	Whiting	267680
1995	SUND07	G06	Sprat	496227
1995	SUND07	G06	Herring	20772919
1995	SUND07	G06	Cod	366891
1995	SUND07	G06	Whiting	395926
1995	SUND07	G07	Sprat	2278503
1995	SUND07	G07	Herring	53702387
1995	SUND07	G07	Cod	1684638
1995	SUND07	G07	Whiting	1817955
1995	SUND07	G08	Sprat	461274
1995	SUND07	G08	Herring	15209766
1995	SUND07	G08	Cod	341048
1995	SUND07	G08	Whiting	368038
1995	SUND07	G09	Sprat	865177
1995	SUND07	G09	Herring	21629427
1995	SUND07	G09	Cod	639679
1995	SUND07	G09	Whiting	690301
1995	SUND07	G10	Sprat	244089
1995	SUND07	G10	Herring	14220794
1995	SUND07	G10	Cod	180470
1995	SUND07	G10	Whiting	194752
1995	SUND07	G11	Sprat	114783
1995	SUND07	G11	Herring	2633289
1995	SUND07	G11	Cod	84866
1995	SUND07	G11	Whiting	91582
1995	SUND07	G12	Sprat	87235
1995	SUND07	G12	Herring	2557665
1995	SUND07	G12	Cod	64498
1995	SUND07	G12	Whiting	69603
1995	SUND09	G01	Sprat	689638
1995	SUND09	G01	Herring	12106295
1995	SUND09	G01	Cod	138334
1995	SUND09	G01	Whiting	213605
1995	SUND09	G02	Sprat	1794461
1995	SUND09	G02	Herring	24566642
1995	SUND09	G02	Cod	359951
1995	SUND09	G02	Whiting	555806
1995	SUND09	G03	Sprat	4623736
1995	SUND09	G03	Herring	51256638
1995	SUND09	G03	Cod	927475
1995	SUND09	G03	Whiting	1432131

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1995	SUND09	G04	Sprat	1777227
1995	SUND09	G04	Herring	27408089
1995	SUND09	G04	Cod	356494
1995	SUND09	G04	Whiting	550468
1995	SUND09	G05	Sprat	1067539
1995	SUND09	G05	Herring	41942626
1995	SUND09	G05	Cod	214138
1995	SUND09	G05	Whiting	330654
1995	SUND09	G06	Sprat	366417
1995	SUND09	G06	Herring	15338836
1995	SUND09	G06	Cod	270915
1995	SUND09	G06	Whiting	292354
1995	SUND09	G07	Sprat	900971
1995	SUND09	G07	Herring	21235120
1995	SUND09	G07	Cod	666143
1995	SUND09	G07	Whiting	718860
1995	SUND09	G08	Sprat	1784105
1995	SUND09	G08	Herring	58828012
1995	SUND09	G08	Cod	1319099
1995	SUND09	G08	Whiting	1423488
1995	SUND09	G09	Sprat	780251
1995	SUND09	G09	Herring	19506267
1995	SUND09	G09	Cod	576887
1995	SUND09	G09	Whiting	622540
1995	SUND09	G10	Sprat	131911
1995	SUND09	G10	Herring	7685216
1995	SUND09	G10	Cod	97530
1995	SUND09	G10	Whiting	105248
1995	SUND09	G11	Sprat	209131
1995	SUND09	G11	Herring	4797785
1995	SUND09	G11	Cod	154624
1995	SUND09	G11	Whiting	166860
1995	SUND09	G12	Sprat	10463
1995	SUND09	G12	Herring	306752
1995	SUND09	G12	Cod	7736
1995	SUND09	G12	Whiting	8348
1996	SUND01	G01	Sprat	1475177
1996	SUND01	G01	Herring	13572501
1996	SUND01	G01	Cod	295906
1996	SUND01	G01	Whiting	456913
1996	SUND01	G02	Sprat	686298
1996	SUND01	G02	Herring	16849722
1996	SUND01	G02	Cod	137664
1996	SUND01	G02	Whiting	212570
1996	SUND01	G03	Sprat	1298176
1996	SUND01	G03	Herring	27767190
1996	SUND01	G03	Cod	260401
1996	SUND01	G03	Whiting	402090
1996	SUND01	G04	Sprat	912707
1996	SUND01	G04	Herring	33231704
1996	SUND01	G04	Cod	183080

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1996	SUND01	G04	Whiting	282697
1996	SUND01	G05	Sprat	567810
1996	SUND01	G05	Herring	26854576
1996	SUND01	G05	Cod	113897
1996	SUND01	G05	Whiting	175870
1996	SUND01	G06	Sprat	580280
1996	SUND01	G06	Herring	20686377
1996	SUND01	G06	Cod	429037
1996	SUND01	G06	Whiting	462990
1996	SUND01	G07	Sprat	1342898
1996	SUND01	G07	Herring	38608317
1996	SUND01	G07	Cod	992887
1996	SUND01	G07	Whiting	1071461
1996	SUND01	G08	Sprat	325755
1996	SUND01	G08	Herring	9091684
1996	SUND01	G08	Cod	240851
1996	SUND01	G08	Whiting	259911
1996	SUND01	G09	Sprat	531187
1996	SUND01	G09	Herring	10166016
1996	SUND01	G09	Cod	392739
1996	SUND01	G09	Whiting	423819
1996	SUND01	G10	Sprat	109953
1996	SUND01	G10	Herring	7177940
1996	SUND01	G10	Cod	81295
1996	SUND01	G10	Whiting	87728
1996	SUND01	G11	Sprat	80739
1996	SUND01	G11	Herring	3013962
1996	SUND01	G11	Cod	59695
1996	SUND01	G11	Whiting	64419
1996	SUND01	G12	Sprat	5146
1996	SUND01	G12	Herring	192099
1996	SUND01	G12	Cod	3805
1996	SUND01	G12	Whiting	4106
1996	SUND04	G01	Sprat	941806
1996	SUND04	G01	Herring	8665174
1996	SUND04	G01	Cod	188917
1996	SUND04	G01	Whiting	291710
1996	SUND04	G02	Sprat	157693
1996	SUND04	G02	Herring	3871613
1996	SUND04	G02	Cod	31632
1996	SUND04	G02	Whiting	48843
1996	SUND04	G03	Sprat	724690
1996	SUND04	G03	Herring	15500666
1996	SUND04	G03	Cod	145366
1996	SUND04	G03	Whiting	224461
1996	SUND04	G04	Sprat	433279
1996	SUND04	G04	Herring	15775717
1996	SUND04	G04	Cod	86912
1996	SUND04	G04	Whiting	134202
1996	SUND04	G05	Sprat	321826
1996	SUND04	G05	Herring	15220772

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1996	SUND04	G05	Cod	64555
1996	SUND04	G05	Whiting	99681
1996	SUND04	G06	Sprat	750759
1996	SUND04	G06	Herring	26763744
1996	SUND04	G06	Cod	555082
1996	SUND04	G06	Whiting	599009
1996	SUND04	G07	Sprat	220756
1996	SUND04	G07	Herring	6346735
1996	SUND04	G07	Cod	163219
1996	SUND04	G07	Whiting	176135
1996	SUND04	G08	Sprat	336591
1996	SUND04	G08	Herring	9394100
1996	SUND04	G08	Cod	248862
1996	SUND04	G08	Whiting	268556
1996	SUND04	G09	Sprat	281065
1996	SUND04	G09	Herring	5379101
1996	SUND04	G09	Cod	207809
1996	SUND04	G09	Whiting	224254
1996	SUND04	G10	Sprat	67049
1996	SUND04	G10	Herring	4377116
1996	SUND04	G10	Cod	49574
1996	SUND04	G10	Whiting	53497
1996	SUND04	G11	Sprat	30593
1996	SUND04	G11	Herring	1142028
1996	SUND04	G11	Cod	22619
1996	SUND04	G11	Whiting	24409
1996	SUND04	G12	Sprat	2830
1996	SUND04	G12	Herring	105650
1996	SUND04	G12	Cod	2093
1996	SUND04	G12	Whiting	2258
1996	SUND10	G01	Sprat	176488
1996	SUND10	G01	Herring	9883302
1996	SUND10	G01	Cod	117658
1996	SUND10	G01	Whiting	88244
1996	SUND10	G02	Sprat	1021457
1996	SUND10	G02	Herring	95846707
1996	SUND10	G02	Cod	680971
1996	SUND10	G02	Whiting	510728
1996	SUND10	G03	Sprat	573476
1996	SUND10	G03	Herring	32305792
1996	SUND10	G03	Cod	382317
1996	SUND10	G03	Whiting	286738
1996	SUND10	G04	Sprat	2720811
1996	SUND10	G04	Herring	164155613
1996	SUND10	G04	Cod	1813874
1996	SUND10	G04	Whiting	1360406
1996	SUND10	G05	Sprat	1047100
1996	SUND10	G05	Herring	73296995
1996	SUND10	G05	Cod	698067
1996	SUND10	G05	Whiting	523550
1996	SUND10	G06	Sprat	8467859

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1996	SUND10	G06	Herring	83043160
1996	SUND10	G06	Cod	351113
1996	SUND10	G06	Whiting	593700
1996	SUND10	G07	Sprat	15695312
1996	SUND10	G07	Herring	216720453
1996	SUND10	G07	Cod	650794
1996	SUND10	G07	Whiting	1100433
1996	SUND10	G08	Sprat	15133545
1996	SUND10	G08	Herring	107087100
1996	SUND10	G08	Cod	627500
1996	SUND10	G08	Whiting	1061046
1996	SUND10	G09	Sprat	6390697
1996	SUND10	G09	Herring	52733096
1996	SUND10	G09	Cod	264985
1996	SUND10	G09	Whiting	448066
1996	SUND10	G10	Sprat	247702
1996	SUND10	G10	Herring	2673274
1996	SUND10	G10	Cod	10271
1996	SUND10	G10	Whiting	17367
1996	SUND10	G11	Sprat	167863
1996	SUND10	G11	Herring	1267545
1996	SUND10	G11	Cod	6960
1996	SUND10	G11	Whiting	11769
1996	SUND10	G12	Sprat	26627
1996	SUND10	G12	Herring	201065
1996	SUND10	G12	Cod	1104
1996	SUND10	G12	Whiting	1867
1996	SUND11	G01	Sprat	2129029
1996	SUND11	G01	Herring	129870752
1996	SUND11	G01	Cod	1419352
1996	SUND11	G01	Whiting	1064514
1996	SUND11	G02	Sprat	1883504
1996	SUND11	G02	Herring	123055602
1996	SUND11	G02	Cod	1255669
1996	SUND11	G02	Whiting	941752
1996	SUND11	G03	Sprat	1965230
1996	SUND11	G03	Herring	143789314
1996	SUND11	G03	Cod	1310153
1996	SUND11	G03	Whiting	982615
1996	SUND11	G04	Sprat	2372270
1996	SUND11	G04	Herring	153406817
1996	SUND11	G04	Cod	1581514
1996	SUND11	G04	Whiting	1186135
1996	SUND11	G05	Sprat	533044
1996	SUND11	G05	Herring	74093135
1996	SUND11	G05	Cod	355363
1996	SUND11	G05	Whiting	266522
1996	SUND11	G06	Sprat	454186
1996	SUND11	G06	Herring	73013758
1996	SUND11	G06	Cod	216279
1996	SUND11	G06	Whiting	32442

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1996	SUND11	G07	Sprat	275683
1996	SUND11	G07	Herring	66909539
1996	SUND11	G07	Cod	131278
1996	SUND11	G07	Whiting	19692
1996	SUND11	G08	Sprat	919349
1996	SUND11	G08	Herring	44124590
1996	SUND11	G08	Cod	437785
1996	SUND11	G08	Whiting	65668
1996	SUND11	G09	Sprat	729353
1996	SUND11	G09	Herring	34309500
1996	SUND11	G09	Cod	347311
1996	SUND11	G09	Whiting	52097
1996	SUND11	G10	Sprat	268363
1996	SUND11	G10	Herring	14343882
1996	SUND11	G10	Cod	127792
1996	SUND11	G10	Whiting	19169
1996	SUND11	G11	Sprat	11444
1996	SUND11	G11	Herring	724020
1996	SUND11	G11	Cod	5449
1996	SUND11	G11	Whiting	817
1996	SUND11	G12	Sprat	5091
1996	SUND11	G12	Herring	322097
1996	SUND11	G12	Cod	2424
1996	SUND11	G12	Whiting	364
1997	SUND03	G01	Sprat	188105
1997	SUND03	G01	Herring	13951117
1997	SUND03	G01	Cod	125403
1997	SUND03	G01	Whiting	94052
1997	SUND03	G02	Sprat	387971
1997	SUND03	G02	Herring	41383615
1997	SUND03	G02	Cod	258648
1997	SUND03	G02	Whiting	193986
1997	SUND03	G03	Sprat	1049786
1997	SUND03	G03	Herring	94480783
1997	SUND03	G03	Cod	699858
1997	SUND03	G03	Whiting	524893
1997	SUND03	G04	Sprat	700223
1997	SUND03	G04	Herring	60569275
1997	SUND03	G04	Cod	466815
1997	SUND03	G04	Whiting	350111
1997	SUND03	G05	Sprat	1750777
1997	SUND03	G05	Herring	91624017
1997	SUND03	G05	Cod	1167185
1997	SUND03	G05	Whiting	875389
1997	SUND03	G06	Sprat	1107564
1997	SUND03	G06	Herring	164910856
1997	SUND03	G06	Cod	527412
1997	SUND03	G06	Whiting	79112
1997	SUND03	G07	Sprat	573305
1997	SUND03	G07	Herring	85362278
1997	SUND03	G07	Cod	273002

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1997	SUND03	G07	Whiting	40950
1997	SUND03	G09	Sprat	0
1997	SUND03	G09	Herring	0
1997	SUND03	G09	Cod	0
1997	SUND03	G09	Whiting	0
1997	SUND03	G10	Sprat	0
1997	SUND03	G10	Herring	0
1997	SUND03	G10	Cod	0
1997	SUND03	G10	Whiting	0
1997	SUND03	G11	Sprat	0
1997	SUND03	G11	Herring	0
1997	SUND03	G11	Cod	0
1997	SUND03	G11	Whiting	0
1997	SUND03	G12	Sprat	3175
1997	SUND03	G12	Herring	154124
1997	SUND03	G12	Cod	1512
1997	SUND03	G12	Whiting	227
1997	SUND04	G01	Sprat	399876
1997	SUND04	G01	Herring	29657480
1997	SUND04	G01	Cod	266584
1997	SUND04	G01	Whiting	199938
1997	SUND04	G02	Sprat	719129
1997	SUND04	G02	Herring	76707103
1997	SUND04	G02	Cod	479419
1997	SUND04	G02	Whiting	359565
1997	SUND04	G03	Sprat	1338716
1997	SUND04	G03	Herring	120484441
1997	SUND04	G03	Cod	892477
1997	SUND04	G03	Whiting	669358
1997	SUND04	G04	Sprat	576109
1997	SUND04	G04	Herring	49833451
1997	SUND04	G04	Cod	384073
1997	SUND04	G04	Whiting	288055
1997	SUND04	G05	Sprat	1284914
1997	SUND04	G05	Herring	67243851
1997	SUND04	G05	Cod	856610
1997	SUND04	G05	Whiting	642457
1997	SUND04	G06	Sprat	384786
1997	SUND04	G06	Herring	57397733
1997	SUND04	G06	Cod	183232
1997	SUND04	G06	Whiting	27485
1997	SUND04	G07	Sprat	550076
1997	SUND04	G07	Herring	82053635
1997	SUND04	G07	Cod	261941
1997	SUND04	G07	Whiting	39291
1997	SUND04	G08	Sprat	168750
1997	SUND04	G08	Herring	27887118
1997	SUND04	G08	Cod	80357
1997	SUND04	G08	Whiting	12054
1997	SUND04	G09	Sprat	425652
1997	SUND04	G09	Herring	20661498

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1997	SUND04	G09	Cod	202691
1997	SUND04	G09	Whiting	30404
1997	SUND04	G10	Sprat	105567
1997	SUND04	G10	Herring	5124325
1997	SUND04	G10	Cod	50270
1997	SUND04	G10	Whiting	7541
1997	SUND04	G11	Sprat	8234
1997	SUND04	G11	Herring	399665
1997	SUND04	G11	Cod	3921
1997	SUND04	G11	Whiting	588
1997	SUND04	G12	Sprat	2647
1997	SUND04	G12	Herring	128484
1997	SUND04	G12	Cod	1260
1997	SUND04	G12	Whiting	189
1997	SUND11	G01	Sprat	3289052
1997	SUND11	G01	Herring	102242730
1997	SUND11	G01	Cod	508378
1997	SUND11	G02	Sprat	6474718
1997	SUND11	G02	Herring	201271610
1997	SUND11	G02	Cod	1000776
1997	SUND11	G03	Sprat	12595148
1997	SUND11	G03	Herring	215372237
1997	SUND11	G03	Cod	1946791
1997	SUND11	G04	Sprat	5200654
1997	SUND11	G04	Herring	123178402
1997	SUND11	G04	Cod	803848
1997	SUND11	G05	Sprat	5156291
1997	SUND11	G05	Herring	114647022
1997	SUND11	G05	Cod	796991
1997	SUND11	G06	Sprat	102524530
1997	SUND11	G06	Herring	93558098
1997	SUND11	G06	Cod	840028
1997	SUND11	G07	Sprat	193529549
1997	SUND11	G07	Herring	127646540
1997	SUND11	G07	Cod	1585671
1997	SUND11	G08	Sprat	52101743
1997	SUND11	G08	Herring	65527940
1997	SUND11	G08	Cod	426892
1997	SUND11	G09	Sprat	114399450
1997	SUND11	G09	Herring	48740857
1997	SUND11	G09	Cod	937324
1997	SUND11	G10	Sprat	65129930
1997	SUND11	G10	Herring	33018832
1997	SUND11	G10	Cod	533638
1997	SUND11	G11	Sprat	641902
1997	SUND11	G11	Herring	333971
1997	SUND11	G11	Cod	5259
1998	SUND03	G01	Sprat	57702669
1998	SUND03	G01	Herring	84564902
1998	SUND03	G01	Cod	9811878
1998	SUND03	G01	Whiting	1494936

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1998	SUND03	G02	Sprat	29741998
1998	SUND03	G02	Herring	43587743
1998	SUND03	G02	Cod	5057389
1998	SUND03	G02	Whiting	770543
1998	SUND03	G03	Sprat	91625036
1998	SUND03	G03	Herring	134279094
1998	SUND03	G03	Cod	15580106
1998	SUND03	G03	Whiting	2373782
1998	SUND03	G04	Sprat	82559709
1998	SUND03	G04	Herring	120993600
1998	SUND03	G04	Cod	14038619
1998	SUND03	G04	Whiting	2138922
1998	SUND03	G05	Sprat	58781733
1998	SUND03	G05	Herring	86146300
1998	SUND03	G05	Cod	9995364
1998	SUND03	G05	Whiting	1522892
1998	SUND03	G06	Sprat	106733950
1998	SUND03	G06	Herring	41434068
1998	SUND03	G06	Cod	15454201
1998	SUND03	G06	Whiting	471203
1998	SUND03	G07	Sprat	118496599
1998	SUND03	G07	Herring	46000323
1998	SUND03	G07	Cod	17157336
1998	SUND03	G07	Whiting	523133
1998	SUND03	G08	Sprat	77205335
1998	SUND03	G08	Herring	29971074
1998	SUND03	G08	Cod	11178699
1998	SUND03	G08	Whiting	340842
1998	SUND03	G09	Sprat	21267438
1998	SUND03	G09	Herring	8256009
1998	SUND03	G09	Cod	3079351
1998	SUND03	G09	Whiting	93890
1998	SUND03	G10	Sprat	33703832
1998	SUND03	G10	Herring	13083811
1998	SUND03	G10	Cod	4880038
1998	SUND03	G10	Whiting	148794
1998	SUND03	G11	Sprat	3017702
1998	SUND03	G11	Herring	1171470
1998	SUND03	G11	Cod	436939
1998	SUND03	G11	Whiting	13322
1998	SUND05	G01	Sprat	14907193
1998	SUND05	G01	Haddock	91049
1998	SUND05	G01	Herring	7939436
1998	SUND05	G01	Cod	1383938
1998	SUND05	G01	Whiting	254936
1998	SUND05	G02	Sprat	16073660
1998	SUND05	G02	Haddock	98173
1998	SUND05	G02	Herring	8560686
1998	SUND05	G02	Cod	1492230
1998	SUND05	G02	Whiting	274884
1998	SUND05	G03	Sprat	16869650

Year	Survey	Geograph. Stratum	Fish Species	Number of fish
1998	SUND05	G03	Haddock	103035
1998	SUND05	G03	Herring	8984623
1998	SUND05	G03	Cod	1566127
1998	SUND05	G03	Whiting	288497
1998	SUND05	G04	Sprat	22411563
1998	SUND05	G04	Haddock	136883
1998	SUND05	G04	Herring	11936196
1998	SUND05	G04	Cod	2080621
1998	SUND05	G04	Whiting	383272
1998	SUND05	G05	Sprat	21108567
1998	SUND05	G05	Haddock	128925
1998	SUND05	G05	Herring	11242232
1998	SUND05	G05	Cod	1959655
1998	SUND05	G05	Whiting	360989
1998	SUND05	G06	Sprat	30936779
1998	SUND05	G06	Haddock	188952
1998	SUND05	G06	Herring	16476649
1998	SUND05	G06	Cod	2872076
1998	SUND05	G06	Whiting	529067
1998	SUND05	G07	Sprat	40174492
1998	SUND05	G07	Haddock	245374
1998	SUND05	G07	Herring	21396571
1998	SUND05	G07	Cod	3729677
1998	SUND05	G07	Whiting	687046
1998	SUND05	G08	Sprat	23158961
1998	SUND05	G08	Haddock	141448
1998	SUND05	G08	Herring	12334253
1998	SUND05	G08	Cod	2150007
1998	SUND05	G08	Whiting	396054
1998	SUND05	G09	Sprat	20958013
1998	SUND05	G09	Haddock	128005
1998	SUND05	G09	Herring	11162048
1998	SUND05	G09	Cod	1945678
1998	SUND05	G09	Whiting	358414
1998	SUND05	G10	Sprat	10672255
1998	SUND05	G10	Haddock	65183
1998	SUND05	G10	Herring	5683946
1998	SUND05	G10	Cod	990780
1998	SUND05	G10	Whiting	182512
1998	SUND05	G11	Sprat	2177027
1998	SUND05	G11	Haddock	13297
1998	SUND05	G11	Herring	1159465
1998	SUND05	G11	Cod	202109
1998	SUND05	G11	Whiting	37231

Appendiks 1, Table 3.

Fishery data from Gillnet sampling and Trawl sampling performed in the Sound during the period 1993-1998.

The data covers number and weight per species. Number and weight per length group and species can be found in the Eagle Database.

(Excl. two trawl stations in the Sound from R/V Dana Survey 7 1995, July 1995. These data can be found in the Eagle Database).

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1993	17-sep-93	SUND01	1	55327	012505	55324	012504	D1645	D1715		Gillnet	27-28MM	DAB	1	1	0,150	0,150
1993	17-sep-93	SUND01	1	55327	012505	55324	012504	D1645	D1715		Gillnet	27-28MM	HERRING	143	143	25,000	25,000
1993	17-sep-93	SUND01	2	55365	012557	55364	012550	D1858	D1928		Gillnet	27-28MM	HERRING	41	41	6,200	6,200
1993	18-sep-93	SUND01	3	55393	012569	55389	012569	D0042	D0112		Gillnet	27-28MM	HERRING	4	4	0,500	0,500
1993	18-sep-93	SUND01	4	55414	012591	55414	012592	D0215	D0245		Gillnet	27-28MM	HERRING	38	38	6,750	6,750
1993	18-sep-93	SUND01	5	55482	012527	55481	012528	D2045	D2113		Gillnet	27-28MM	GARFISH	2	2	0,800	0,800
1993	18-sep-93	SUND01	5	55482	012527	55481	012528	D2045	D2113		Gillnet	27-28MM	HERRING	101	101	17,500	17,500
1993	18-sep-93	SUND01	5	55482	012527	55481	012528	D2045	D2113		Gillnet	27-28MM	COD	1	1	1,100	1,100
1993	18-sep-93	SUND01	6	55481	012452	55481	012453	D2345	D0015		Gillnet	27-28MM	HERRING	107	107	18,500	18,500
1993	19-sep-93	SUND01	7	55534	012444	55534	012445	D0228	D0240		Gillnet	27-28MM	HERRING	15	15	2,200	2,200
1993	19-sep-93	SUND01	8	55569	012414	55571	012412	D0340	D0410		Gillnet	27-28MM	HERRING	30	30	4,600	4,600
1993	19-sep-93	SUND01	9	55585	012435	55587	012437	D2045	D2115		Gillnet	27-28MM	GARFISH	11	11	6,000	6,000
1993	19-sep-93	SUND01	9	55585	012435	55587	012437	D2045	D2115		Gillnet	27-28MM	HERRING	88	277	16,500	52,000
1993	19-sep-93	SUND01	10	55550	012468	55551	012469	D2249	D2319		Gillnet	27-28MM	HERRING	25	26	4,500	4,500
1993	20-sep-93	SUND01	11	55504	012418	55506	012415	D0031	D0101		Gillnet	27-28MM	HERRING	73	73	12,500	12,500
1993	20-sep-93	SUND01	12	55592	012370	55596	012370	D2105	D2135		Gillnet	27-28MM	GARFISH	12	12	7,300	7,300
1993	20-sep-93	SUND01	12	55592	012370	55596	012370	D2105	D2135		Gillnet	27-28MM	HERRING	47	47	8,000	8,000
1993	20-sep-93	SUND01	13	55570	012352	55573	012353	D2335	D0005		Gillnet	27-28MM	HERRING	2	2	0,250	0,250
1993	21-sep-93	SUND01	14	55542	012359	55546	012359	D0143	D0213		Gillnet	27-28MM	HERRING	12	12	1,800	1,800
1993	21-sep-93	SUND01	15	55533	012368	55539	012367	D0325	D0355		Gillnet	27-28MM	GARFISH	2	2	1,000	1,000
1993	21-sep-93	SUND01	15	55533	012368	55539	012367	D0325	D0355		Gillnet	27-28MM	HERRING	13	13	1,900	1,900
1993	21-sep-93	SUND01	16	55493	012368	55494	012368	D2100	D2130		Gillnet	27-28MM	MACKEREL	7	7	2,000	2,000
1993	21-sep-93	SUND01	16	55493	012368	55494	012368	D2100	D2130		Gillnet	27-28MM	HERRING	30	30	5,000	5,000
1993	21-sep-93	SUND01	17	55494	012416	55497	012420	D2215	D2245		Gillnet	27-28MM	GARFISH	10	10	6,300	6,300
1993	21-sep-93	SUND01	17	55494	012416	55497	012420	D2215	D2245		Gillnet	27-28MM	HERRING	4	4	0,700	0,700
1993	22-sep-93	SUND01	19	55459	012402	55458	012405	D0120	D0150		Gillnet	27-28MM	HERRING	82	159	15,000	29,000

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1993	22-sep-93	SUND01	18	55458	012460	55461	012461	D2350	D0020		Gillnet	27-28MM	COD	1	1	0,800	0,800
1993	11-okt-93	SOLE10	30	55501	12445	55479	12450	G0031	G0101		Trawl		YELL. EEL	0	0	0,600	0,600
1993	11-okt-93	SOLE10	30	55501	12445	55479	12450	G0031	G0101		Trawl		WHITING	2	4	1,100	2,200
1993	11-okt-93	SOLE10	30	55501	12445	55479	12450	G0031	G0101		Trawl		HERRING	219	32242	32,500	4784,800
1993	11-okt-93	SOLE10	30	55501	12445	55479	12450	G0031	G0101		Trawl		COD	44	88	94,400	188,800
1993	11-okt-93	SOLE10	28	56118	012251	56102	012280	G1925	G1955		Trawl		SPRAT	66	132	1,500	3,000
1993	11-okt-93	SOLE10	28	56118	012251	56102	012280	G1925	G1955		Trawl		WHITING	410	820	6,900	13,800
1993	11-okt-93	SOLE10	28	56118	012251	56102	012280	G1925	G1955		Trawl		INVERTEBR.	0	0	17,800	17,800
1993	11-okt-93	SOLE10	28	56118	012251	56102	012280	G1925	G1955		Trawl		DAB	0	0	1,800	1,800
1993	11-okt-93	SOLE10	28	56118	012251	56102	012280	G1925	G1955		Trawl		HERRING	254	508	6,200	12,400
1993	11-okt-93	SOLE10	28	56118	012251	56102	012280	G1925	G1955		Trawl		LUMPSUCKER	0	0	0,400	0,400
1993	11-okt-93	SOLE10	28	56118	012251	56102	012280	G1925	G1955		Trawl		COD	2	4	3,800	7,600
1993	11-okt-93	SOLE10	29	55575	12417	55562	12402	G2232	G2258		Trawl		YELL. EEL	0	0	2,769	2,769
1993	11-okt-93	SOLE10	29	55575	12417	55562	12402	G2232	G2258		Trawl		WHITING	7	16	1,900	4,385
1993	11-okt-93	SOLE10	29	55575	12417	55562	12402	G2232	G2258		Trawl		INVERTEBR.	0	0	11,769	11,769
1993	11-okt-93	SOLE10	29	55575	12417	55562	12402	G2232	G2258		Trawl		HERRING	277	8486	20,000	612,692
1993	11-okt-93	SOLE10	29	55575	12417	55562	12402	G2232	G2258		Trawl		COD	8	18	14,400	33,231
1993	25-okt-93	SUND02	101	55354	012513	012513	55354	D2325	D2355	7	Gillnet	K52-26MM	HERRING	1	1	0,125	0,125
1993	25-okt-93	SUND02	102	55354	012513	012513	55354	D2325	D2355	7	Gillnet	K52-28MM	HERRING	11	11	2,100	2,100
1993	25-okt-93	SUND02	103	55354	012513	012513	55354	D2325	D2355	7	Gillnet	K52-34MM	HERRING	5	5	1,300	1,300
1993	26-okt-93	SUND02	201	55392	012567	012569	55393	D0155	D0225	15	Gillnet	K52-28MM	HERRING	5	5	1,200	1,200
1993	26-okt-93	SUND02	202	55392	012567	012569	55393	D0155	D0225	15	Gillnet	K52-26MM	HERRING	1	1	0,150	0,150
1993	26-okt-93	SUND02	301	55422	012527	012530	55424	D0435	D0505	16	Gillnet	K52-26MM	HERRING	5	5	1,000	1,000
1993	26-okt-93	SUND02	302	55422	012527	012530	55424	D0435	D0505	16	Gillnet	K52-28MM	HERRING	46	46	8,700	8,700
1993	26-okt-93	SUND02	401	55455	012514	012516	55457	D2000	D2100	17	Gillnet	K52-18,5MM	HERRING	14	14	1,650	1,650
1993	26-okt-93	SUND02	402	55455	012514	012516	55457	D2000	D2100	17	Gillnet	K52-26MM	HERRING	55	55	8,850	8,850
1993	26-okt-93	SUND02	403	55455	012514	012516	55457	D2000	D2100	17	Gillnet	K52-28MM	HERRING	71	71	13,050	13,050
1993	26-okt-93	SUND02	501	55493	012460	012460	55491	D2322	D2352	21	Gillnet	K52-18,5MM	HERRING	3	3	0,450	0,450
1993	26-okt-93	SUND02	502	55493	012460	012460	55491	D2322	D2352	21	Gillnet	K52-26MM	HERRING	2	2	0,250	0,250
1993	26-okt-93	SUND02	503	55493	012460	012460	55491	D2322	D2352	21	Gillnet	K52-28MM	HERRING	1	1	0,190	0,190
1993	27-okt-93	SUND02	601	55507	012460	012456	55508	D0123	D0145	27	Gillnet	K52-18,5MM	HERRING	10	10	1,000	1,000
1993	27-okt-93	SUND02	602	55507	012460	012456	55508	D0123	D0145	27	Gillnet	K52-26MM	HERRING	47	47	7,800	7,800

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1993	27-okt-93	SUND02	603	55507	012460	012456	55508	D0123	D0145	27	Gillnet	K52-28MM	HERRING	51	51	9,350	9,350
1993	27-okt-93	SUND02	701	55542	012469	012468	55543	D0345	D0415	13	Gillnet	K52-18,5MM	HERRING	16	16	1,400	1,400
1993	27-okt-93	SUND02	702	55542	012469	012468	55543	D0345	D0415	13	Gillnet	K52-26MM	HERRING	81	82	13,000	13,000
1993	27-okt-93	SUND02	703	55542	012469	012468	55543	D0345	D0415	13	Gillnet	K52-28MM	HERRING	82	82	14,000	14,000
1993	27-okt-93	SUND02	704	55542	012469	012468	55543	D0345	D0415	13	Gillnet	K52-34MM	HERRING	1	1	0,350	0,350
1993	27-okt-93	SUND02	801	55567	012401	012401	55566	D2000	D2030	24	Gillnet	K52-18,5MM	HERRING	2	2	0,180	0,180
1993	27-okt-93	SUND02	802	55567	012401	012401	55566	D2000	D2030	24	Gillnet	K52-26MM	HERRING	1	1	0,150	0,150
1993	27-okt-93	SUND02	803	55567	012401	012401	55566	D2000	D2030	24	Gillnet	K52-28MM	HERRING	2	2	0,300	0,300
1993	27-okt-93	SUND02	901	55575	012352	012351	55577	D2255	D2325	15	Gillnet	K52-18,5MM	HERRING	29	29	2,200	2,200
1993	27-okt-93	SUND02	902	55575	012352	012351	55577	D2255	D2325	15	Gillnet	K52-26MM	HERRING	91	91	13,100	13,100
1993	27-okt-93	SUND02	903	55575	012352	012351	55577	D2255	D2325	15	Gillnet	K52-28MM	HERRING	73	73	12,000	12,000
1993	28-okt-93	SUND02	1001	55575	012352	012351	55577	D0125	D0155	13	Gillnet	K52-18,5MM	HERRING	148	148	14,800	14,800
1993	28-okt-93	SUND02	1002	55575	012352	012351	55577	D0125	D0155	13	Gillnet	K52-26MM	HERRING	100	203	15,600	31,600
1993	28-okt-93	SUND02	1003	55575	012352	012351	55577	D0125	D0155	13	Gillnet	K52-28MM	HERRING	67	133	11,100	22,100
1993	28-okt-93	SUND02	1004	55575	012352	012351	55577	D0125	D0155	13	Gillnet	K52-34MM	HERRING	1	1	0,250	0,250
1993	28-okt-93	SUND02	1101	55540	012358	012358	55540	D0407	D0437	17	Gillnet	K52-18,5MM	HERRING	20	20	1,750	1,750
1993	28-okt-93	SUND02	1102	55540	012358	012358	55540	D0407	D0437	17	Gillnet	K52-26MM	HERRING	65	84	12,600	12,600
1993	28-okt-93	SUND02	1103	55540	012358	012358	55540	D0407	D0437	17	Gillnet	K52-28MM	HERRING	94	94	15,900	15,900
1993	28-okt-93	SUND02	1201	55528	012370	012358	55530	D1950	D2015	12	Gillnet	K52-18,5MM	HERRING	1	1	0,125	0,125
1993	28-okt-93	SUND02	1202	55528	012370	012358	55530	D1950	D2015	12	Gillnet	K52-26MM	HERRING	1	1	0,200	0,200
1993	28-okt-93	SUND02	1203	55528	012370	012358	55530	D1950	D2015	12	Gillnet	K52-28MM	HERRING	2	2	0,400	0,400
1993	28-okt-93	SUND02	1301	55505	012385	012385	55508	D2205	D2235	9	Gillnet	K52-18,5MM	HERRING	6	6	0,450	0,450
1993	28-okt-93	SUND02	1302	55505	012385	012385	55508	D2205	D2235	9	Gillnet	K52-26MM	HERRING	45	45	6,400	6,400
1993	28-okt-93	SUND02	1303	55505	012385	012385	55508	D2205	D2235	9	Gillnet	K52-28MM	HERRING	23	23	3,700	3,700
1993	29-okt-93	SUND02	1401	55491	012441	012440	55494	D0032	D0102	24	Gillnet	K52-28MM	HERRING	3	3	0,600	0,600
1993	29-okt-93	SUND02	1501	55462	012466	012465	55461	D0230	D0255	15	Gillnet	K52-26MM	HERRING	1	1	0,150	0,150
1993	29-okt-93	SUND02	1502	55462	012466	012465	55461	D0230	D0255	15	Gillnet	K52-28MM	HERRING	5	5	0,850	0,850
1993	29-nov-93	SUND03	101	55356	012528	012536	55360	D2310	D2340	9	Gillnet	K52-18,5MM	HERRING	1	1	0,075	0,075
1993	29-nov-93	SUND03	102	55356	012528	012536	55360	D2310	D2340	9	Gillnet	K52-26MM	HERRING	3	3	0,495	0,495
1993	29-nov-93	SUND03	103	55356	012528	012536	55360	D2310	D2340	9	Gillnet	K52-28MM	HERRING	10	10	1,850	1,850
1993	29-nov-93	SUND03	104	55356	012528	012536	55360	D2310	D2340	9	Gillnet	K52-29MM	HERRING	8	8	1,125	1,125
1993	30-nov-93	SUND03	201	55374	012553	012559	55378	D0050	D0120	15	Gillnet	K52-26MM	HERRING	17	17	2,950	2,950

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1993	30-nov-93	SUND03	202	55374	012553	012559	55378	D0050	D0120	15	Gillnet	K52-28MM	HERRING	7	7	1,100	1,100
1993	30-nov-93	SUND03	203	55374	012553	012559	55378	D0050	D0120	15	Gillnet	K52-29MM	HERRING	8	8	1,460	1,460
1993	30-nov-93	SUND03	301	55393	012556	012556	55398	D0255	D0323	15	Gillnet	K52-18,5MM	HERRING	2	2	0,300	0,300
1993	30-nov-93	SUND03	302	55393	012556	012556	55398	D0255	D0323	15	Gillnet	K52-26MM	HERRING	21	21	3,600	3,600
1993	30-nov-93	SUND03	303	55393	012556	012556	55398	D0255	D0323	15	Gillnet	K52-28MM	HERRING	12	12	2,050	2,050
1993	30-nov-93	SUND03	304	55393	012556	012556	55398	D0255	D0323	15	Gillnet	K52-29MM	HERRING	9	9	1,450	1,450
1993	30-nov-93	SUND03	305	55393	012556	012556	55398	D0255	D0323	15	Gillnet	K52-34MM	HERRING	1	1	0,210	0,210
1993	02-dec-93	SUND03	602	55536	012355	012357	55534	D1915	D2015	11	Gillnet	K52-27MM	WHITING	1	1	0,125	0,125
1993	02-dec-93	SUND03	601	55536	012355	012357	55534	D1915	D2015	11	Gillnet	K52-18,5MM	HERRING	7	7	0,610	0,610
1993	02-dec-93	SUND03	602	55536	012355	012357	55534	D1915	D2015	11	Gillnet	K52-27MM	HERRING	13	13	1,800	1,800
1993	02-dec-93	SUND03	801	55522	012389	012391	55520	D2235	D2335	17	Gillnet	K52-18,5MM	HERRING	5	5	0,410	0,410
1993	02-dec-93	SUND03	802	55522	012389	012391	55520	D2235	D2335	17	Gillnet	K52-26MM	HERRING	4	4	0,735	0,735
1993	02-dec-93	SUND03	804	55522	012389	012391	55520	D2235	D2335	17	Gillnet	K52-27MM	HERRING	13	13	2,200	2,200
1993	02-dec-93	SUND03	803	55522	012389	012391	55520	D2235	D2335	17	Gillnet	K52-55MM	COD	1	1	1,000	1,000
1994	10-jan-94	SUND04	1001	55357	012547	012547	55357	D2025	D0030	9	Gillnet	K52-28MM	HERRING	2	2	0,250	0,250
1994	10-jan-94	SUND04	2001	55392	012586	012586	55392	D2130	D0130	14	Gillnet	K52-26MM	HERRING	35	35	5,950	5,950
1994	10-jan-94	SUND04	2002	55392	012586	012586	55392	D2130	D0130	14	Gillnet	K52-27MM	HERRING	30	30	5,400	5,400
1994	10-jan-94	SUND04	2003	55392	012586	012586	55392	D2130	D0130	14	Gillnet	K52-28MM	HERRING	25	25	4,950	4,950
1994	10-jan-94	SUND04	2004	55392	012586	012586	55392	D2130	D0130	14	Gillnet	K52-29MM	HERRING	37	37	7,700	7,700
1994	10-jan-94	SUND04	2002	55392	012586	012586	55392	D2130	D0130	14	Gillnet	K52-27MM	COD	2	2	1,500	1,500
1994	10-jan-94	SUND04	2005	55392	012586	012586	55392	D2130	D0130	14	Gillnet	K52-60MM	COD	2	2	2,750	2,750
1994	10-jan-94	SUND04	3001	55402	013002	013002	55402	D2210	D0330	11	Gillnet	K52-18,5MM	HERRING	5	5	0,275	0,275
1994	10-jan-94	SUND04	3002	55402	013002	013002	55402	D2210	D0330	11	Gillnet	K52-26MM	HERRING	111	201	24,800	44,900
1994	10-jan-94	SUND04	3003	55402	013002	013002	55402	D2210	D0330	11	Gillnet	K52-27MM	HERRING	114	0	51,950	51,950
1994	10-jan-94	SUND04	3004	55402	013002	013002	55402	D2210	D0330	11	Gillnet	K52-28MM	HERRING	123	234	23,400	44,500
1994	10-jan-94	SUND04	3005	55402	013002	013002	55402	D2210	D0330	11	Gillnet	K52-29MM	HERRING	119	280	23,600	55,600
1994	10-jan-94	SUND04	3006	55402	013002	013002	55402	D2210	D0330	11	Gillnet	K52-45MM	COD	1	1	0,900	0,900
1994	11-jan-94	SUND04	4002	55464	012428	012428	55464	D2340	D0140	16	Gillnet	K52-27MM	WHITING	1	1	0,150	0,150
1994	11-jan-94	SUND04	4001	55464	012428	012428	55464	D2340	D0140	16	Gillnet	K52-26MM	HERRING	13	13	2,000	2,000
1994	11-jan-94	SUND04	4002	55464	012428	012428	55464	D2340	D0140	16	Gillnet	K52-27MM	HERRING	9	9	1,450	1,450
1994	11-jan-94	SUND04	4003	55464	012428	012428	55464	D2340	D0140	16	Gillnet	K52-28MM	HERRING	8	8	1,400	1,400
1994	11-jan-94	SUND04	4004	55464	012428	012428	55464	D2340	D0140	16	Gillnet	K52-29MM	HERRING	10	10	1,900	1,900

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	11-jan-94	SUND04	4005	55464	012428	012428	55464	D2340	D0140	16	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100
1994	11-jan-94	SUND04	4003	55464	012428	012428	55464	D2340	D0140	16	Gillnet	K52-28MM	COD	1	1	0,250	0,250
1994	12-jan-94	SUND04	5001	55480	012397	012397	55480	D0015	D0300	11	Gillnet	K52-26MM	HERRING	12	12	1,900	1,900
1994	12-jan-94	SUND04	5002	55480	012397	012397	55480	D0015	D0300	11	Gillnet	K52-27MM	HERRING	7	7	1,100	1,100
1994	12-jan-94	SUND04	5003	55480	012397	012397	55480	D0015	D0300	11	Gillnet	K52-28MM	HERRING	19	19	3,300	3,300
1994	12-jan-94	SUND04	5004	55480	012397	012397	55480	D0015	D0300	11	Gillnet	K52-29MM	HERRING	16	16	3,000	3,000
1994	12-jan-94	SUND04	6001	55553	012344	012344	55553	D1934	D2200	9	Gillnet	K52-18,5MM	HERRING	7	7	0,550	0,550
1994	12-jan-94	SUND04	6002	55553	012344	012344	55553	D1934	D2200	9	Gillnet	K52-26MM	HERRING	13	13	1,700	1,700
1994	12-jan-94	SUND04	6003	55553	012344	012344	55553	D1934	D2200	9	Gillnet	K52-27MM	HERRING	10	10	1,600	1,600
1994	12-jan-94	SUND04	6004	55553	012344	012344	55553	D1934	D2200	9	Gillnet	K52-28MM	HERRING	11	11	1,800	1,800
1994	12-jan-94	SUND04	6005	55553	012344	012344	55553	D1934	D2200	9	Gillnet	K52-29MM	HERRING	12	12	2,000	2,000
1994	12-jan-94	SUND04	7001	55538	012343	012343	55538	D2030	D2230	10	Gillnet	K52-18,5MM	HERRING	12	12	0,900	0,900
1994	12-jan-94	SUND04	7002	55538	012343	012343	55538	D2030	D2230	10	Gillnet	K52-26MM	HERRING	49	49	6,600	6,600
1994	12-jan-94	SUND04	7003	55538	012343	012343	55538	D2030	D2230	10	Gillnet	K52-27MM	HERRING	40	40	6,450	6,450
1994	12-jan-94	SUND04	7004	55538	012343	012343	55538	D2030	D2230	10	Gillnet	K52-28MM	HERRING	15	15	2,450	2,450
1994	12-jan-94	SUND04	7005	55538	012343	012343	55538	D2030	D2230	10	Gillnet	K52-29MM	HERRING	19	19	3,050	3,050
1994	12-jan-94	SUND04	7003	55538	012343	012343	55538	D2030	D2230	10	Gillnet	K52-27MM	COD	1	1	0,250	0,250
1994	12-jan-94	SUND04	7004	55538	012343	012343	55538	D2030	D2230	10	Gillnet	K52-28MM	COD	1	1	0,350	0,350
1994	12-jan-94	SUND04	8001	55521	012345	012345	55521	D2105	D2315	10	Gillnet	K52-18,5MM	HERRING	78	78	9,300	9,300
1994	12-jan-94	SUND04	8002	55521	012345	012345	55521	D2105	D2315	10	Gillnet	K52-26MM	HERRING	144	255	20,750	36,800
1994	12-jan-94	SUND04	8003	55521	012345	012345	55521	D2105	D2315	10	Gillnet	K52-27MM	HERRING	134	134	22,700	22,700
1994	12-jan-94	SUND04	8004	55521	012345	012345	55521	D2105	D2315	10	Gillnet	K52-28MM	HERRING	108	218	21,100	42,550
1994	12-jan-94	SUND04	8005	55521	012345	012345	55521	D2105	D2315	10	Gillnet	K52-29MM	HERRING	115	222	19,900	38,500
1994	12-jan-94	SUND04	8006	55521	012345	012345	55521	D2105	D2315	10	Gillnet	K52-46MM	HERRING	1	1	0,075	0,075
1994	12-jan-94	SUND04	8002	55521	012345	012345	55521	D2105	D2315	10	Gillnet	K52-26MM	COD	1	1	0,600	0,600
1994	14-jan-94	SUND04	9005	55485	012367	012367	55485	D1945	D2045	8	Gillnet	K52-29MM	HERRING	11	11	1,700	1,700
1994	14-jan-94	SUND04	9001	55485	012367	012367	55485	D1945	D2045	8	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100
1994	14-jan-94	SUND04	9002	55485	012367	012367	55485	D1945	D2045	8	Gillnet	K52-26MM	HERRING	7	7	0,850	0,850
1994	14-jan-94	SUND04	9003	55485	012367	012367	55485	D1945	D2045	8	Gillnet	K52-27MM	HERRING	21	21	3,400	3,400
1994	14-jan-94	SUND04	9004	55485	012367	012367	55485	D1945	D2045	8	Gillnet	K52-28MM	HERRING	18	18	2,700	2,700
1994	14-jan-94	SUND04	9004	55485	012367	012367	55485	D1945	D2045	8	Gillnet	K52-28MM	COD	1	1	0,900	0,900
1994	14-jan-94	SUND04	10005	55471	012381	012381	55471	D2005	D2205	7	Gillnet	K52-29MM	HERRING	7	7	1,050	1,050

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	14-jan-94	SUND04	10001	55471	012381	012381	55471	D2005	D2205	7	Gillnet	K52-18,5MM	HERRING	1	1	0,125	0,125
1994	14-jan-94	SUND04	10002	55471	012381	012381	55471	D2005	D2205	7	Gillnet	K52-26MM	HERRING	10	10	1,250	1,250
1994	14-jan-94	SUND04	10003	55471	012381	012381	55471	D2005	D2205	7	Gillnet	K52-27MM	HERRING	5	5	0,750	0,750
1994	14-jan-94	SUND04	10004	55471	012381	012381	55471	D2005	D2205	7	Gillnet	K52-28MM	HERRING	3	3	0,375	0,375
1994	15-mar-94	SUND06	104	55470	012389	012391	55469	D1900	D2300	9	Gillnet	K52-27MM	HERRING	11	11	1,800	1,800
1994	15-mar-94	SUND06	103	55470	012389	012391	55469	D1900	D2300	9	Gillnet	K52-28MM	HERRING	58	58	9,500	9,500
1994	15-mar-94	SUND06	105	55470	012389	012391	55469	D1900	D2300	9	Gillnet	K52-26MM	HERRING	24	24	3,500	3,500
1994	15-mar-94	SUND06	106	55470	012389	012391	55469	D1900	D2300	9	Gillnet	K52-18,5MM	HERRING	2	3	0,250	0,250
1994	15-mar-94	SUND06	102	55470	012389	012391	55469	D1900	D2300	9	Gillnet	K52-29MM	HERRING	43	43	7,500	7,500
1994	15-mar-94	SUND06	101	55470	012389	012391	55469	D1900	D2300	9	Gillnet	K52-46MM	HERRING	1	1	0,075	0,075
1994	15-mar-94	SUND06	106	55470	012389	012391	55469	D1900	D2300	9	Gillnet	K52-18,5MM	COD	1	1	0,150	0,150
1994	15-mar-94	SUND06	105	55470	012389	012391	55469	D1900	D2300	9	Gillnet	K52-26MM	COD	1	#DIV/0!	0,000	0,000
1994	15-mar-94	SUND06	205	55491	012364	012365	55489	D2000	D0030	10	Gillnet	K52-29MM	HERRING	9	9	1,700	1,700
1994	15-mar-94	SUND06	204	55491	012364	012365	55489	D2000	D0030	10	Gillnet	K52-28MM	HERRING	14	14	2,350	2,350
1994	15-mar-94	SUND06	203	55491	012364	012365	55489	D2000	D0030	10	Gillnet	K52-27MM	HERRING	12	12	2,150	2,150
1994	15-mar-94	SUND06	201	55491	012364	012365	55489	D2000	D0030	10	Gillnet	K52-18,5MM	HERRING	4	4	0,350	0,350
1994	15-mar-94	SUND06	202	55491	012364	012365	55489	D2000	D0030	10	Gillnet	K52-26MM	HERRING	9	9	1,500	1,500
1994	15-mar-94	SUND06	302	55506	012360	012361	55504	D2050	D0130	11	Gillnet	K52-26MM	HERRING	4	4	0,500	0,500
1994	15-mar-94	SUND06	301	55506	012360	012361	55504	D2050	D0130	11	Gillnet	K52-18,5MM	HERRING	3	3	0,250	0,250
1994	15-mar-94	SUND06	303	55506	012360	012361	55504	D2050	D0130	11	Gillnet	K52-27MM	HERRING	1	1	0,250	0,250
1994	16-mar-94	SUND06	401	55530	012352	012353	55528	D1915	D2300	12	Gillnet	K52-18,5MM	HERRING	1	1	0,080	0,080
1994	16-mar-94	SUND06	402	55530	012352	012353	55528	D1915	D2300	12	Gillnet	K52-26MM	HERRING	2	2	0,250	0,250
1994	16-mar-94	SUND06	403	55530	012352	012353	55528	D1915	D2300	12	Gillnet	K52-28MM	HERRING	1	1	0,130	0,130
1994	16-mar-94	SUND06	404	55530	012352	012353	55528	D1915	D2300	12	Gillnet	K52-55MM	COD	1	1	1,025	1,025
1994	16-mar-94	SUND06	503	55561	012342	012343	55560	D2000	D0015	9	Gillnet	K52-27MM	OTH. SPEC.	1	1	0,050	0,050
1994	16-mar-94	SUND06	503	55561	012342	012343	55560	D2000	D0015	9	Gillnet	K52-27MM	HERRING	5	5	0,900	0,900
1994	16-mar-94	SUND06	504	55561	012342	012343	55560	D2000	D0015	9	Gillnet	K52-28MM	HERRING	20	20	3,200	3,200
1994	16-mar-94	SUND06	505	55561	012342	012343	55560	D2000	D0015	9	Gillnet	K52-29MM	HERRING	28	28	5,150	5,150
1994	16-mar-94	SUND06	501	55561	012342	012343	55560	D2000	D0015	9	Gillnet	K52-18,5MM	HERRING	18	18	1,400	1,400
1994	16-mar-94	SUND06	502	55561	012342	012343	55560	D2000	D0015	9	Gillnet	K52-26MM	HERRING	5	5	0,650	0,650
1994	16-mar-94	SUND06	606	55581	012344	012345	55579	D2035	D0130	12	Gillnet	K52-18,5MM	HERRING	38	38	3,100	3,100
1994	16-mar-94	SUND06	605	55581	012344	012345	55579	D2035	D0130	12	Gillnet	K52-29MM	HERRING	3	3	0,500	0,500

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	16-mar-94	SUND06	603	55581	012344	012345	55579	D2035	D0130	12	Gillnet	K52-27MM	HERRING	5	5	0,850	0,850
1994	16-mar-94	SUND06	604	55581	012344	012345	55579	D2035	D0130	12	Gillnet	K52-28MM	HERRING	11	11	1,800	1,800
1994	16-mar-94	SUND06	602	55581	012344	012345	55579	D2035	D0130	12	Gillnet	K52-26MM	HERRING	13	13	1,850	1,850
1994	16-mar-94	SUND06	601	55581	012344	012345	55579	D2035	D0130	12	Gillnet	K52-60MM	FLOUNDER	3	3	1,750	1,750
1994	16-mar-94	SUND06	606	55581	012344	012345	55579	D2035	D0130	12	Gillnet	K52-18,5MM	FLOUNDER	1	1	0,550	0,550
1994	16-mar-94	SUND06	606	55581	012344	012345	55579	D2035	D0130	12	Gillnet	K52-18,5MM	COD	1	1	1,250	1,250
1994	16-mar-94	SUND06	603	55581	012344	012345	55579	D2035	D0130	12	Gillnet	K52-27MM	COD	1	1	0,800	0,800
1994	16-mar-94	SUND06	601	55581	012344	012345	55579	D2035	D0130	12	Gillnet	K52-60MM	COD	2	2	3,000	3,000
1994	16-mar-94	SUND06	604	55581	012344	012345	55579	D2035	D0130	12	Gillnet	K52-28MM	COD	1	1	0,125	0,125
1994	17-mar-94	SUND06	703	55445	012515	012517	55445	D1945	D2345	15	Gillnet	K52-26MM	HERRING	1	1	0,175	0,175
1994	17-mar-94	SUND06	702	55445	012515	012517	55445	D1945	D2345	15	Gillnet	K52-27MM	HERRING	1	1	0,200	0,200
1994	17-mar-94	SUND06	701	55445	012515	012517	55445	D1945	D2345	15	Gillnet	K52-29MM	HERRING	3	3	0,500	0,500
1994	17-mar-94	SUND06	703	55445	012515	012517	55445	D1945	D2345	15	Gillnet	K52-26MM	COD	2	2	0,600	0,600
1994	17-mar-94	SUND06	803	55419	012585	012588	55418	D2040	D0045	15	Gillnet	K52-28MM	WHITING	1	1	0,175	0,175
1994	17-mar-94	SUND06	804	55419	012585	012588	55418	D2040	D0045	15	Gillnet	K52-27MM	WHITING	1	1	0,125	0,125
1994	17-mar-94	SUND06	806	55419	012585	012588	55418	D2040	D0045	15	Gillnet	K52-18,5MM	HERRING	1	1	0,075	0,075
1994	17-mar-94	SUND06	805	55419	012585	012588	55418	D2040	D0045	15	Gillnet	K52-26MM	HERRING	8	8	1,300	1,300
1994	17-mar-94	SUND06	804	55419	012585	012588	55418	D2040	D0045	15	Gillnet	K52-27MM	HERRING	2	2	0,450	0,450
1994	17-mar-94	SUND06	803	55419	012585	012588	55418	D2040	D0045	15	Gillnet	K52-28MM	HERRING	6	6	1,000	1,000
1994	17-mar-94	SUND06	802	55419	012585	012588	55418	D2040	D0045	15	Gillnet	K52-29MM	HERRING	9	9	1,500	1,500
1994	17-mar-94	SUND06	801	55419	012585	012588	55418	D2040	D0045	15	Gillnet	K52-55MM	COD	1	1	2,750	2,750
1994	17-mar-94	SUND06	904	55395	012595	012597	55394	D2210	D0210	13	Gillnet	K52-27MM	HERRING	36	36	6,250	6,250
1994	17-mar-94	SUND06	903	55395	012595	012597	55394	D2210	D0210	13	Gillnet	K52-26MM	HERRING	40	40	6,250	6,250
1994	17-mar-94	SUND06	902	55395	012595	012597	55394	D2210	D0210	13	Gillnet	K52-18,5MM	HERRING	2	2	0,150	0,150
1994	17-mar-94	SUND06	905	55395	012595	012597	55394	D2210	D0210	13	Gillnet	K52-28MM	HERRING	24	24	4,200	4,200
1994	17-mar-94	SUND06	906	55395	012595	012597	55394	D2210	D0210	13	Gillnet	K52-29MM	HERRING	21	21	3,900	3,900
1994	17-mar-94	SUND06	901	55395	012595	012597	55394	D2210	D0210	13	Gillnet	K52-60MM	COD	1	1	1,850	1,850
1994	11-apr-94	SUND07	102	55361	012550	012550	55363	D2050	D0045	10	Gillnet	K52-26MM	HERRING	1	1	0,050	0,050
1994	11-apr-94	SUND07	101	55361	012550	012550	55363	D2050	D0045	10	Gillnet	K52-18,5MM	HERRING	1	1	0,150	0,150
1994	11-apr-94	SUND07	202	55390	013003	013005	55392	D2130	D0145	10	Gillnet	K52-26MM	HERRING	16	16	2,550	2,550
1994	11-apr-94	SUND07	203	55390	013003	013005	55392	D2130	D0145	10	Gillnet	K52-27MM	HERRING	27	27	4,600	4,600
1994	11-apr-94	SUND07	206	55390	013003	013005	55392	D2130	D0145	10	Gillnet	K52-29MM	HERRING	26	26	4,450	4,450

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	11-apr-94	SUND07	205	55390	013003	013005	55392	D2130	D0145	10	Gillnet	K52-28MM	HERRING	14	14	2,650	2,650
1994	11-apr-94	SUND07	204	55390	013003	013005	55392	D2130	D0145	10	Gillnet	K52-21MM	HERRING	6	6	0,575	0,575
1994	11-apr-94	SUND07	201	55390	013003	013005	55392	D2130	D0145	10	Gillnet	K52-18,5MM	HERRING	3	3	0,160	0,160
1994	11-apr-94	SUND07	203	55390	013003	013005	55392	D2130	D0145	10	Gillnet	K52-27MM	COD	3	3	0,900	0,900
1994	11-apr-94	SUND07	303	55333	012475	012479	55336	D2307	D2337	10	Gillnet	K52-26MM	HERRING	5	5	0,725	0,725
1994	11-apr-94	SUND07	302	55333	012475	012479	55336	D2307	D2337	10	Gillnet	K52-21MM	HERRING	5	5	0,400	0,400
1994	11-apr-94	SUND07	301	55333	012475	012479	55336	D2307	D2337	10	Gillnet	K52-18,5MM	HERRING	1	1	0,060	0,060
1994	11-apr-94	SUND07	304	55333	012475	012479	55336	D2307	D2337	10	Gillnet	K52-27MM	HERRING	15	15	2,700	2,700
1994	11-apr-94	SUND07	306	55333	012475	012479	55336	D2307	D2337	10	Gillnet	K52-29MM	HERRING	9	9	1,625	1,625
1994	11-apr-94	SUND07	305	55333	012475	012479	55336	D2307	D2337	10	Gillnet	K52-28MM	HERRING	9	9	1,600	1,600
1994	12-apr-94	SUND07	403	55436	012538	012529	55440	D2045	D2145	17	Gillnet	K52-28MM	HERRING	1	1	0,150	0,150
1994	12-apr-94	SUND07	402	55436	012538	012529	55440	D2045	D2145	17	Gillnet	K52-21MM	HERRING	3	3	0,325	0,325
1994	12-apr-94	SUND07	401	55436	012538	012529	55440	D2045	D2145	17	Gillnet	K52-18,5MM	HERRING	4	4	0,275	0,275
1994	12-apr-94	SUND07	504	55469	012530	012529	55470	D2235	D0030	17	Gillnet	K52-27MM	WHITING	1	1	0,325	0,325
1994	12-apr-94	SUND07	505	55469	012530	012529	55470	D2235	D0030	17	Gillnet	K52-28MM	WHITING	1	1	0,150	0,150
1994	12-apr-94	SUND07	506	55469	012530	012529	55470	D2235	D0030	17	Gillnet	K52-29MM	HERRING	5	5	0,850	0,850
1994	12-apr-94	SUND07	503	55469	012530	012529	55470	D2235	D0030	17	Gillnet	K52-26MM	HERRING	18	18	2,750	2,750
1994	12-apr-94	SUND07	501	55469	012530	012529	55470	D2235	D0030	17	Gillnet	K52-18,5MM	HERRING	1	1	0,060	0,060
1994	12-apr-94	SUND07	504	55469	012530	012529	55470	D2235	D0030	17	Gillnet	K52-27MM	HERRING	10	10	1,750	1,750
1994	12-apr-94	SUND07	502	55469	012530	012529	55470	D2235	D0030	17	Gillnet	K52-21MM	HERRING	3	3	0,250	0,250
1994	12-apr-94	SUND07	505	55469	012530	012529	55470	D2235	D0030	17	Gillnet	K52-28MM	HERRING	12	12	2,000	2,000
1994	12-apr-94	SUND07	505	55469	012530	012529	55470	D2235	D0030	17	Gillnet	K52-28MM	COD	1	1	0,275	0,275
1994	12-apr-94	SUND07	601	55486	012495	012489	55488	D2340	D0220	17	Gillnet	K52-18,5MM	WHITING	2	2	0,180	0,180
1994	12-apr-94	SUND07	602	55486	012495	012489	55488	D2340	D0220	17	Gillnet	K52-26MM	HERRING	1	1	0,130	0,130
1994	12-apr-94	SUND07	605	55486	012495	012489	55488	D2340	D0220	17	Gillnet	K52-29MM	HERRING	1	1	0,180	0,180
1994	12-apr-94	SUND07	604	55486	012495	012489	55488	D2340	D0220	17	Gillnet	K52-28MM	HERRING	3	3	0,460	0,460
1994	12-apr-94	SUND07	603	55486	012495	012489	55488	D2340	D0220	17	Gillnet	K52-27MM	HERRING	3	3	0,460	0,460
1994	13-apr-94	SUND07	706	55543	012353	012355	55541	D2005	D0050	11	Gillnet	K52-55MM	DAB	1	1	0,050	0,050
1994	13-apr-94	SUND07	705	55543	012353	012355	55541	D2005	D0050	11	Gillnet	K52-29MM	SAITHE	1	1	0,550	0,550
1994	13-apr-94	SUND07	705	55543	012353	012355	55541	D2005	D0050	11	Gillnet	K52-29MM	HERRING	6	6	1,050	1,050
1994	13-apr-94	SUND07	702	55543	012353	012355	55541	D2005	D0050	11	Gillnet	K52-21MM	HERRING	9	9	0,900	0,900
1994	13-apr-94	SUND07	704	55543	012353	012355	55541	D2005	D0050	11	Gillnet	K52-28MM	HERRING	8	8	1,350	1,350

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	13-apr-94	SUND07	703	55543	012353	012355	55541	D2005	D0050	11	Gillnet	K52-26MM	HERRING	12	12	1,900	1,900
1994	13-apr-94	SUND07	701	55543	012353	012355	55541	D2005	D0050	11	Gillnet	K52-18,5MM	HERRING	5	5	1,250	1,250
1994	13-apr-94	SUND07	707	55543	012353	012355	55541	D2005	D0050	11	Gillnet	K52-27MM	HERRING	4	4	0,725	0,725
1994	13-apr-94	SUND07	705	55543	012353	012355	55541	D2005	D0050	11	Gillnet	K52-29MM	COD	2	2	2,200	2,200
1994	13-apr-94	SUND07	706	55543	012353	012355	55541	D2005	D0050	11	Gillnet	K52-55MM	COD	1	1	1,850	1,850
1994	13-apr-94	SUND07	905	55577	012347	012348	55578	D2030	D2335	13	Gillnet	K52-28MM	HERRING	39	39	6,600	6,600
1994	13-apr-94	SUND07	803	55556	012351	012351	55555	D2030	D0025	12	Gillnet	K52-26MM	HERRING	22	22	3,550	3,550
1994	13-apr-94	SUND07	802	55556	012351	012351	55555	D2030	D0025	12	Gillnet	K52-21MM	HERRING	84	84	4,450	4,450
1994	13-apr-94	SUND07	801	55556	012351	012351	55555	D2030	D0025	12	Gillnet	K52-18,5MM	HERRING	17	17	1,500	1,500
1994	13-apr-94	SUND07	805	55556	012351	012351	55555	D2030	D0025	12	Gillnet	K52-28MM	HERRING	18	18	3,200	3,200
1994	13-apr-94	SUND07	804	55556	012351	012351	55555	D2030	D0025	12	Gillnet	K52-27MM	HERRING	26	26	4,700	4,700
1994	13-apr-94	SUND07	904	55577	012347	012348	55578	D2030	D2335	13	Gillnet	K52-27MM	HERRING	44	44	7,800	7,800
1994	13-apr-94	SUND07	902	55577	012347	012348	55578	D2030	D2335	13	Gillnet	K52-21MM	HERRING	62	62	6,050	6,050
1994	13-apr-94	SUND07	901	55577	012347	012348	55578	D2030	D2335	13	Gillnet	K52-18,5MM	HERRING	16	16	1,425	1,425
1994	13-apr-94	SUND07	903	55577	012347	012348	55578	D2030	D2335	13	Gillnet	K52-26MM	HERRING	33	33	5,100	5,100
1994	13-apr-94	SUND07	806	55556	012351	012351	55555	D2030	D0025	12	Gillnet	K52-29MM	HERRING	7	7	1,230	1,230
1994	13-apr-94	SUND07	906	55577	012347	012348	55578	D2030	D2335	13	Gillnet	K52-29MM	HERRING	24	24	4,450	4,450
1994	13-apr-94	SUND07	804	55556	012351	012351	55555	D2030	D0025	12	Gillnet	K52-27MM	COD	1	1	0,110	0,110
1994	13-apr-94	SUND07	805	55556	012351	012351	55555	D2030	D0025	12	Gillnet	K52-28MM	COD	1	1	1,000	1,000
1994	13-apr-94	SUND07	905	55577	012347	012348	55578	D2030	D2335	13	Gillnet	K52-28MM	COD	1	1	0,100	0,100
1994	14-apr-94	SUND07	1002	55505	012400	012401	55507	D2030	D0030	13	Gillnet	K52-28MM	WHITING	1	1	0,100	0,100
1994	14-apr-94	SUND07	1001	55505	012400	012401	55507	D2030	D0030	13	Gillnet	K52-29MM	HERRING	8	8	1,500	1,500
1994	14-apr-94	SUND07	1002	55505	012400	012401	55507	D2030	D0030	13	Gillnet	K52-28MM	HERRING	7	7	1,350	1,350
1994	14-apr-94	SUND07	1003	55505	012400	012401	55507	D2030	D0030	13	Gillnet	K52-27MM	HERRING	5	5	0,900	0,900
1994	14-apr-94	SUND07	1005	55505	012400	012401	55507	D2030	D0030	13	Gillnet	K52-21MM	HERRING	7	7	0,900	0,900
1994	14-apr-94	SUND07	1004	55505	012400	012401	55507	D2030	D0030	13	Gillnet	K52-26MM	HERRING	18	18	2,825	2,825
1994	14-apr-94	SUND07	1001	55505	012400	012401	55507	D2030	D0030	13	Gillnet	K52-29MM	COD	1	1	0,670	0,670
1994	14-apr-94	SUND07	1006	55505	012400	012401	55507	D2030	D0030	13	Gillnet	K52-18,5MM	COD	1	1	0,030	0,030
1994	14-apr-94	SUND07	1104	55448	012461	012462	55450	D2135	D0130	13	Gillnet	K52-21MM	HERRING	5	5	0,530	0,530
1994	14-apr-94	SUND07	1101	55448	012461	012462	55450	D2135	D0130	13	Gillnet	K52-28MM	HERRING	1	1	0,160	0,160
1994	14-apr-94	SUND07	1103	55448	012461	012462	55450	D2135	D0130	13	Gillnet	K52-26MM	HERRING	3	3	0,500	0,500
1994	14-apr-94	SUND07	1102	55448	012461	012462	55450	D2135	D0130	13	Gillnet	K52-27MM	HERRING	1	1	0,150	0,150

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	14-apr-94	SUND07	1204	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-27MM	WHITING	1	1	0,225	0,225
1994	14-apr-94	SUND07	1207	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-18,5MM	WHITING	1	1	0,300	0,300
1994	14-apr-94	SUND07	1203	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-28MM	HERRING	21	21	3,800	3,800
1994	14-apr-94	SUND07	1202	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-29MM	HERRING	14	14	2,600	2,600
1994	14-apr-94	SUND07	1204	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-27MM	HERRING	25	25	4,500	4,500
1994	14-apr-94	SUND07	1205	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-26MM	HERRING	14	14	2,250	2,250
1994	14-apr-94	SUND07	1207	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-18,5MM	HERRING	8	8	0,700	0,700
1994	14-apr-94	SUND07	1206	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-21MM	HERRING	20	20	2,000	2,000
1994	14-apr-94	SUND07	1203	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-28MM	COD	1	1	2,700	2,700
1994	14-apr-94	SUND07	1201	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-46MM	COD	1	1	0,375	0,375
1994	14-apr-94	SUND07	1204	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-27MM	COD	2	2	1,050	1,050
1994	14-apr-94	SUND07	1205	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-26MM	COD	1	1	1,000	1,000
1994	14-apr-94	SUND07	1206	55414	012510	012511	55416	D2230	D0225	14	Gillnet	K52-21MM	COD	1	1	0,800	0,800
1994	17-okt-94	SUND10	105	55335	012500	012503	55340	D2030	D2100	9	Gillnet	K52-28MM	GARFISH	1	1	0,550	0,550
1994	17-okt-94	SUND10	103	55335	012500	012503	55340	D2030	D2100	9	Gillnet	K52-26MM	HERRING	22	22	2,750	2,750
1994	17-okt-94	SUND10	101	55335	012500	012503	55340	D2030	D2100	9	Gillnet	K52-18,5MM	HERRING	1	1	0,080	0,080
1994	17-okt-94	SUND10	106	55335	012500	012503	55340	D2030	D2100	9	Gillnet	K52-29MM	HERRING	8	8	1,200	1,200
1994	17-okt-94	SUND10	102	55335	012500	012503	55340	D2030	D2100	9	Gillnet	K52-21MM	HERRING	37	37	3,250	3,250
1994	17-okt-94	SUND10	105	55335	012500	012503	55340	D2030	D2100	9	Gillnet	K52-28MM	HERRING	6	6	1,050	1,050
1994	17-okt-94	SUND10	104	55335	012500	012503	55340	D2030	D2100	9	Gillnet	K52-27MM	HERRING	5	5	0,650	0,650
1994	17-okt-94	SUND10	201	55365	012554	012560	55369	D2230	D2300	11	Gillnet	K52-21MM	HERRING	1	1	0,050	0,050
1994	17-okt-94	SUND10	203	55365	012554	012560	55369	D2230	D2300	11	Gillnet	K52-29MM	HERRING	2	2	0,330	0,330
1994	17-okt-94	SUND10	202	55365	012554	012560	55369	D2230	D2300	11	Gillnet	K52-28MM	HERRING	2	2	0,300	0,300
1994	17-okt-94	SOLE10	58	56101	012201	56087	012230	G1708	G1739	0	Trawl		SPRAT	99	2792	0,700	19,742
1994	17-okt-94	SOLE10	58	56101	012201	56087	012230	G1708	G1739	0	Trawl		H. MACKEREL	0	0	0,387	0,387
1994	17-okt-94	SOLE10	58	56101	012201	56087	012230	G1708	G1739	0	Trawl		WHITING	120	242	2,300	4,645
1994	17-okt-94	SOLE10	58	56101	012201	56087	012230	G1708	G1739	0	Trawl		DAB	0	0	2,129	2,129
1994	17-okt-94	SOLE10	58	56101	012201	56087	012230	G1708	G1739	0	Trawl		HERRING	459	8742	21,300	405,677
1994	17-okt-94	SOLE10	58	56101	012201	56087	012230	G1708	G1739	0	Trawl		COD	9	17	17,600	34,065
1994	17-okt-94	SOLE10	59	55582	012411	55565	012426	G2005	G2036	0	Trawl		YELL. EEL	0	0	1,548	1,548
1994	17-okt-94	SOLE10	59	55582	012411	55565	012426	G2005	G2036	0	Trawl		WHITING	2	4	0,600	1,161
1994	17-okt-94	SOLE10	59	55582	012411	55565	012426	G2005	G2036	0	Trawl		HERRING	364	8751	75,700	1819,935

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	17-okt-94	SOLE10	59	55582	012411	55565	012426	G2005	G2036	0	Trawl		COD	31	60	51,700	100,065
1994	17-okt-94	SOLE10	60	55496	012459	55489	012472	G2213	G2229	0	Trawl		SPRAT	67	902	1,700	22,875
1994	17-okt-94	SOLE10	60	55496	012459	55489	012472	G2213	G2229	0	Trawl		YELL. EEL	0	0	1,875	1,875
1994	17-okt-94	SOLE10	60	55496	012459	55489	012472	G2213	G2229	0	Trawl		WHITING	0	0	43,500	43,500
1994	17-okt-94	SOLE10	60	55496	012459	55489	012472	G2213	G2229	0	Trawl		HERRING	361	10721	52,400	1556,250
1994	17-okt-94	SOLE10	60	55496	012459	55489	012472	G2213	G2229	0	Trawl		COD	41	154	96,000	360,000
1994	18-okt-94	SUND10	302	55394	012562	012562	55396	D0000	D0130	16	Gillnet	K52-21MM	WHITING	1	1	0,100	0,100
1994	18-okt-94	SUND10	303	55394	012562	012562	55396	D0000	D0130	16	Gillnet	K52-26MM	HERRING	1	1	0,120	0,120
1994	18-okt-94	SUND10	304	55394	012562	012562	55396	D0000	D0130	16	Gillnet	K52-29MM	HERRING	2	2	0,375	0,375
1994	18-okt-94	SUND10	302	55394	012562	012562	55396	D0000	D0130	16	Gillnet	K52-21MM	HERRING	12	12	1,250	1,250
1994	18-okt-94	SUND10	301	55394	012562	012562	55396	D0000	D0130	16	Gillnet	K52-18,5MM	HERRING	8	8	0,750	0,750
1994	18-okt-94	SUND10	401	55422	012519	012518	55425	D0250	D0420	15	Gillnet	K52-18,5MM	WHITING	1	1	0,300	0,300
1994	18-okt-94	SUND10	406	55422	012519	012518	55425	D0250	D0420	15	Gillnet	K52-29MM	WHITING	7	7	1,350	1,350
1994	18-okt-94	SUND10	404	55422	012519	012518	55425	D0250	D0420	15	Gillnet	K52-27MM	WHITING	1	1	0,150	0,150
1994	18-okt-94	SUND10	405	55422	012519	012518	55425	D0250	D0420	15	Gillnet	K52-28MM	WHITING	1	1	0,200	0,200
1994	18-okt-94	SUND10	403	55422	012519	012518	55425	D0250	D0420	15	Gillnet	K52-26MM	HERRING	3	3	0,500	0,500
1994	18-okt-94	SUND10	402	55422	012519	012518	55425	D0250	D0420	15	Gillnet	K52-21MM	HERRING	1	1	0,250	0,250
1994	18-okt-94	SUND10	405	55422	012519	012518	55425	D0250	D0420	15	Gillnet	K52-28MM	HERRING	78	78	15,700	15,700
1994	18-okt-94	SUND10	404	55422	012519	012518	55425	D0250	D0420	15	Gillnet	K52-27MM	HERRING	15	15	3,250	3,250
1994	18-okt-94	SUND10	406	55422	012519	012518	55425	D0250	D0420	15	Gillnet	K52-29MM	HERRING	85	85	17,500	17,500
1994	18-okt-94	SUND10	501	55432	012542	012534	55435	D1900	D1930	17	Gillnet	K52-18,5MM	HERRING	2	2	0,130	0,130
1994	18-okt-94	SUND10	605	55475	012413	012412	55476	D2110	D2310	12	Gillnet	K52-28MM	WHITING	3	3	1,200	1,200
1994	18-okt-94	SUND10	603	55475	012413	012412	55476	D2110	D2310	12	Gillnet	K52-26MM	HERRING	120	120	20,200	20,200
1994	18-okt-94	SUND10	602	55475	012413	012412	55476	D2110	D2310	12	Gillnet	K52-21MM	HERRING	76	76	10,500	10,500
1994	18-okt-94	SUND10	601	55475	012413	012412	55476	D2110	D2310	12	Gillnet	K52-18,5MM	HERRING	12	12	1,500	1,500
1994	18-okt-94	SUND10	605	55475	012413	012412	55476	D2110	D2310	12	Gillnet	K52-28MM	HERRING	160	160	30,900	30,900
1994	18-okt-94	SUND10	604	55475	012413	012412	55476	D2110	D2310	12	Gillnet	K52-27MM	HERRING	105	105	20,200	20,200
1994	18-okt-94	SUND10	606	55475	012413	012412	55476	D2110	D2310	12	Gillnet	K52-29MM	HERRING	77	77	14,500	14,500
1994	18-okt-94	SUND10	603	55475	012413	012412	55476	D2110	D2310	12	Gillnet	K52-26MM	COD	1	1	0,550	0,550
1994	18-okt-94	SUND10	606	55475	012413	012412	55476	D2110	D2310	12	Gillnet	K52-29MM	COD	1	1	0,200	0,200
1994	19-okt-94	SUND10	703	55510	012410	012409	55512	D0200	D0400	15	Gillnet	K52-26MM	HERRING	3	3	0,620	0,620
1994	19-okt-94	SUND10	702	55510	012410	012409	55512	D0200	D0400	15	Gillnet	K52-21MM	HERRING	13	13	1,500	1,500

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	19-okt-94	SUND10	701	55510	012410	012409	55512	D0200	D0400	15	Gillnet	K52-18,5MM	HERRING	9	9	1,000	1,000
1994	24-okt-94	SUND10	804	55564	012372	012373	55566	D1857	D2050	18	Gillnet	K52-27MM	WHITING	2	2	0,450	0,450
1994	24-okt-94	SUND10	805	55564	012372	012373	55566	D1857	D2050	18	Gillnet	K52-28MM	WHITING	1	1	0,125	0,125
1994	24-okt-94	SUND10	802	55564	012372	012373	55566	D1857	D2050	18	Gillnet	K52-21MM	WHITING	1	1	0,080	0,080
1994	24-okt-94	SUND10	801	55564	012372	012373	55566	D1857	D2050	18	Gillnet	K52-18,5MM	WHITING	1	1	0,160	0,160
1994	24-okt-94	SUND10	805	55564	012372	012373	55566	D1857	D2050	18	Gillnet	K52-28MM	HERRING	1	1	0,180	0,180
1994	24-okt-94	SUND10	806	55564	012372	012373	55566	D1857	D2050	18	Gillnet	K52-29MM	HERRING	1	1	0,150	0,150
1994	24-okt-94	SUND10	803	55564	012372	012373	55566	D1857	D2050	18	Gillnet	K52-26MM	HERRING	1	1	0,225	0,225
1994	24-okt-94	SUND10	801	55564	012372	012373	55566	D1857	D2050	18	Gillnet	K52-18,5MM	HERRING	2	2	0,180	0,180
1994	24-okt-94	SUND10	802	55564	012372	012373	55566	D1857	D2050	18	Gillnet	K52-21MM	HERRING	4	4	0,450	0,450
1994	24-okt-94	SUND10	902	55581	012388	012389	55583	D2130	D2330	17	Gillnet	K52-21MM	HERRING	25	25	3,200	3,200
1994	24-okt-94	SUND10	906	55581	012388	012389	55583	D2130	D2330	17	Gillnet	K52-29MM	HERRING	9	9	1,600	1,600
1994	24-okt-94	SUND10	905	55581	012388	012389	55583	D2130	D2330	17	Gillnet	K52-28MM	HERRING	5	5	0,900	0,900
1994	24-okt-94	SUND10	903	55581	012388	012389	55583	D2130	D2330	17	Gillnet	K52-26MM	HERRING	15	15	2,400	2,400
1994	24-okt-94	SUND10	904	55581	012388	012389	55583	D2130	D2330	17	Gillnet	K52-27MM	HERRING	7	7	1,100	1,100
1994	24-okt-94	SUND10	901	55581	012388	012389	55583	D2130	D2330	17	Gillnet	K52-18,5MM	HERRING	4	4	0,350	0,350
1994	25-okt-94	SUND10	1002	56004	012382	012381	56002	D0020	D0200	11	Gillnet	K52-21MM	WHITING	2	2	0,100	0,100
1994	25-okt-94	SUND10	1001	56004	012382	012381	56002	D0020	D0200	11	Gillnet	K52-18,5MM	WHITING	1	1	0,070	0,070
1994	25-okt-94	SUND10	1005	56004	012382	012381	56002	D0020	D0200	11	Gillnet	K52-28MM	HERRING	1	1	0,130	0,130
1994	25-okt-94	SUND10	1003	56004	012382	012381	56002	D0020	D0200	11	Gillnet	K52-26MM	HERRING	2	2	0,220	0,220
1994	25-okt-94	SUND10	1004	56004	012382	012381	56002	D0020	D0200	11	Gillnet	K52-27MM	HERRING	1	1	0,125	0,125
1994	25-okt-94	SUND10	1002	56004	012382	012381	56002	D0020	D0200	11	Gillnet	K52-21MM	HERRING	10	10	1,400	1,400
1994	25-okt-94	SUND10	1001	56004	012382	012381	56002	D0020	D0200	11	Gillnet	K52-18,5MM	HERRING	9	9	0,900	0,900
1994	25-okt-94	SUND10	1006	56004	012382	012381	56002	D0020	D0200	11	Gillnet	K52-60MM	COD	1	1	0,300	0,300
1994	25-okt-94	SUND10	1105	55593	012427	012430	55594	D0300	D0400	15	Gillnet	K52-28MM	WHITING	2	2	0,425	0,425
1994	25-okt-94	SUND10	1106	55593	012427	012430	55594	D0300	D0400	15	Gillnet	K52-29MM	WHITING	1	1	0,150	0,150
1994	25-okt-94	SUND10	1104	55593	012427	012430	55594	D0300	D0400	15	Gillnet	K52-27MM	WHITING	1	1	0,100	0,100
1994	25-okt-94	SUND10	1105	55593	012427	012430	55594	D0300	D0400	15	Gillnet	K52-28MM	HERRING	93	207	18,000	40,000
1994	25-okt-94	SUND10	1101	55593	012427	012430	55594	D0300	D0400	15	Gillnet	K52-18,5MM	HERRING	39	39	4,400	4,400
1994	25-okt-94	SUND10	1102	55593	012427	012430	55594	D0300	D0400	15	Gillnet	K52-21MM	HERRING	125	125	15,000	15,000
1994	25-okt-94	SUND10	1106	55593	012427	012430	55594	D0300	D0400	15	Gillnet	K52-29MM	HERRING	95	148	18,000	28,000
1994	25-okt-94	SUND10	1104	55593	012427	012430	55594	D0300	D0400	15	Gillnet	K52-27MM	HERRING	97	209	19,000	41,000

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	25-okt-94	SUND10	1103	55593	012427	012430	55594	D0300	D0400	15	Gillnet	K52-26MM	HERRING	105	105	17,000	17,000
1994	25-okt-94	SUND10	1104	55593	012427	012430	55594	D0300	D0400	15	Gillnet	K52-27MM	COD	1	1	1,000	1,000
1994	25-okt-94	SUND10	1204	55538	012402	012401	55540	D1915	D2035	24	Gillnet	K52-27MM	HERRING	4	4	0,700	0,700
1994	25-okt-94	SUND10	1203	55538	012402	012401	55540	D1915	D2035	24	Gillnet	K52-26MM	HERRING	3	3	0,500	0,500
1994	25-okt-94	SUND10	1205	55538	012402	012401	55540	D1915	D2035	24	Gillnet	K52-28MM	HERRING	20	20	4,350	4,350
1994	25-okt-94	SUND10	1206	55538	012402	012401	55540	D1915	D2035	24	Gillnet	K52-29MM	HERRING	14	14	2,800	2,800
1994	25-okt-94	SUND10	1202	55538	012402	012401	55540	D1915	D2035	24	Gillnet	K52-21MM	HERRING	4	4	0,700	0,700
1994	25-okt-94	SUND10	1201	55538	012402	012401	55540	D1915	D2035	24	Gillnet	K52-18,5MM	HERRING	1	1	0,080	0,080
1994	25-okt-94	SUND10	1306	55570	012404	012404	55572	D2130	D2300	24	Gillnet	K52-29MM	WHITING	1	1	0,200	0,200
1994	25-okt-94	SUND10	1303	55570	012404	012404	55572	D2130	D2300	24	Gillnet	K52-26MM	WHITING	1	1	0,200	0,200
1994	25-okt-94	SUND10	1304	55570	012404	012404	55572	D2130	D2300	24	Gillnet	K52-27MM	HERRING	45	45	8,450	8,450
1994	25-okt-94	SUND10	1303	55570	012404	012404	55572	D2130	D2300	24	Gillnet	K52-26MM	HERRING	49	49	8,600	8,600
1994	25-okt-94	SUND10	1302	55570	012404	012404	55572	D2130	D2300	24	Gillnet	K52-21MM	HERRING	69	69	8,200	8,200
1994	25-okt-94	SUND10	1301	55570	012404	012404	55572	D2130	D2300	24	Gillnet	K52-18,5MM	HERRING	2	2	0,200	0,200
1994	25-okt-94	SUND10	1305	55570	012404	012404	55572	D2130	D2300	24	Gillnet	K52-28MM	HERRING	48	48	9,700	9,700
1994	25-okt-94	SUND10	1306	55570	012404	012404	55572	D2130	D2300	24	Gillnet	K52-29MM	HERRING	36	36	6,700	6,700
1994	26-okt-94	SUND10	1403	55538	012436	012439	55539	D0105	D0245	22	Gillnet	K52-28MM	WHITING	3	3	0,600	0,600
1994	26-okt-94	SUND10	1404	55538	012436	012439	55539	D0105	D0245	22	Gillnet	K52-29MM	WHITING	5	5	1,600	1,600
1994	26-okt-94	SUND10	1402	55538	012436	012439	55539	D0105	D0245	22	Gillnet	K52-27MM	WHITING	1	1	0,200	0,200
1994	26-okt-94	SUND10	1403	55538	012436	012439	55539	D0105	D0245	22	Gillnet	K52-28MM	HERRING	10	10	2,000	2,000
1994	26-okt-94	SUND10	1404	55538	012436	012439	55539	D0105	D0245	22	Gillnet	K52-29MM	HERRING	21	21	4,200	4,200
1994	26-okt-94	SUND10	1401	55538	012436	012439	55539	D0105	D0245	22	Gillnet	K52-26MM	HERRING	2	2	0,500	0,500
1994	26-okt-94	SUND10	1402	55538	012436	012439	55539	D0105	D0245	22	Gillnet	K52-27MM	HERRING	22	22	4,200	4,200
1994	26-okt-94	SUND10	1503	55440	012450	012450	55442	D2020	D2140	10	Gillnet	K52-27MM	HERRING	30	30	6,400	6,400
1994	26-okt-94	SUND10	1502	55440	012450	012450	55442	D2020	D2140	10	Gillnet	K52-26MM	HERRING	18	18	3,300	3,300
1994	26-okt-94	SUND10	1501	55440	012450	012450	55442	D2020	D2140	10	Gillnet	K52-21MM	HERRING	5	5	0,900	0,900
1994	26-okt-94	SUND10	1504	55440	012450	012450	55442	D2020	D2140	10	Gillnet	K52-28MM	HERRING	41	41	8,700	8,700
1994	26-okt-94	SUND10	1505	55440	012450	012450	55442	D2020	D2140	10	Gillnet	K52-29MM	HERRING	68	68	13,200	13,200
1994	26-okt-94	SUND10	1506	55440	012450	012450	55442	D2020	D2140	10	Gillnet	K52-60MM	COD	1	1	4,750	4,750
1994	26-okt-94	SUND10	1503	55440	012450	012450	55442	D2020	D2140	10	Gillnet	K52-27MM	COD	1	1	1,400	1,400
1994	26-okt-94	SUND10	1603	55415	012560	012562	55415	D2330	D0040	14	Gillnet	K52-26MM	HERRING	17	17	3,200	3,200
1994	26-okt-94	SUND10	1601	55415	012560	012562	55415	D2330	D0040	14	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	26-okt-94	SUND10	1605	55415	012560	012562	55415	D2330	D0040	14	Gillnet	K52-28MM	HERRING	77	154	17,000	34,000
1994	26-okt-94	SUND10	1602	55415	012560	012562	55415	D2330	D0040	14	Gillnet	K52-21MM	HERRING	13	13	2,000	2,000
1994	26-okt-94	SUND10	1606	55415	012560	012562	55415	D2330	D0040	14	Gillnet	K52-29MM	HERRING	85	85	1,850	1,850
1994	26-okt-94	SUND10	1604	55415	012560	012562	55415	D2330	D0040	14	Gillnet	K52-27MM	HERRING	64	64	13,300	13,300
1994	26-okt-94	SUND10	1604	55415	012560	012562	55415	D2330	D0040	14	Gillnet	K52-27MM	COD	1	1	1,400	1,400
1994	26-okt-94	SUND10	1603	55415	012560	012562	55415	D2330	D0040	14	Gillnet	K52-26MM	COD	1	1	1,750	1,750
1994	27-okt-94	SUND10	1704	55362	012506	012505	55367	D0300	D0340	7	Gillnet	K52-27MM	HERRING	34	34	6,700	6,700
1994	27-okt-94	SUND10	1702	55362	012506	012505	55367	D0300	D0340	7	Gillnet	K52-21MM	HERRING	12	12	1,900	1,900
1994	27-okt-94	SUND10	1701	55362	012506	012505	55367	D0300	D0340	7	Gillnet	K52-18,5MM	HERRING	7	7	1,000	1,000
1994	27-okt-94	SUND10	1706	55362	012506	012505	55367	D0300	D0340	7	Gillnet	K52-29MM	HERRING	29	29	5,700	5,700
1994	27-okt-94	SUND10	1705	55362	012506	012505	55367	D0300	D0340	7	Gillnet	K52-28MM	HERRING	51	51	12,000	12,000
1994	27-okt-94	SUND10	1703	55362	012506	012505	55367	D0300	D0340	7	Gillnet	K52-26MM	HERRING	24	24	4,200	4,200
1994	21-nov-94	SUND11	101	55341	012414	012414	55337	D1900	D1915	7	Gillnet	K52-18,5MM	HERRING	11	11	1,000	1,000
1994	21-nov-94	SUND11	103	55341	012414	012414	55337	D1900	D1915	7	Gillnet	K52-26MM	HERRING	56	56	7,700	7,700
1994	21-nov-94	SUND11	104	55341	012414	012414	55337	D1900	D1915	7	Gillnet	K52-27MM	HERRING	30	30	4,950	4,950
1994	21-nov-94	SUND11	106	55341	012414	012414	55337	D1900	D1915	7	Gillnet	K52-29MM	HERRING	32	32	5,450	5,450
1994	21-nov-94	SUND11	102	55341	012414	012414	55337	D1900	D1915	7	Gillnet	K52-21MM	HERRING	24	24	2,800	2,800
1994	21-nov-94	SUND11	105	55341	012414	012414	55337	D1900	D1915	7	Gillnet	K52-28MM	HERRING	32	32	5,450	5,450
1994	23-nov-94	SUND11	202	55505	012460	012462	55503	D2150	D2250	18	Gillnet	K52-21MM	HERRING	6	6	0,900	0,900
1994	23-nov-94	SUND11	201	55505	012460	012462	55503	D2150	D2250	18	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100
1994	23-nov-94	SUND11	203	55505	012460	012462	55503	D2150	D2250	18	Gillnet	K52-26MM	HERRING	6	6	1,000	1,000
1994	23-nov-94	SUND11	204	55505	012460	012462	55503	D2150	D2250	18	Gillnet	K52-27MM	HERRING	6	6	1,000	1,000
1994	24-nov-94	SUND11	302	55527	012359	012360	55525	D0030	D0150	9	Gillnet	K52-29MM	HERRING	1	1	0,120	0,120
1994	24-nov-94	SUND11	301	55527	012359	012360	55525	D0030	D0150	9	Gillnet	K52-28MM	HERRING	3	3	0,500	0,500
1994	24-nov-94	SUND11	402	55553	012349	012349	55551	D0115	D0410	9	Gillnet	K52-28MM	WHITING	1	1	0,150	0,150
1994	24-nov-94	SUND11	401	55553	012349	012349	55551	D0115	D0410	9	Gillnet	K52-21MM	HERRING	3	3	0,250	0,250
1994	24-nov-94	SUND11	402	55553	012349	012349	55551	D0115	D0410	9	Gillnet	K52-28MM	HERRING	2	2	0,250	0,250
1994	24-nov-94	SUND11	403	55553	012349	012349	55551	D0115	D0410	9	Gillnet	K52-29MM	HERRING	9	9	1,600	1,600
1994	24-nov-94	SUND11	404	55553	012349	012349	55551	D0115	D0410	9	Gillnet	K52-34MM	HERRING	2	2	0,400	0,400
1994	24-nov-94	SUND11	502	55595	012354	012354	55594	D0315	D0515	10	Gillnet	K52-21MM	HERRING	1	1	0,040	0,040
1994	24-nov-94	SUND11	501	55595	012354	012354	55594	D0315	D0515	10	Gillnet	K52-18,5MM	HERRING	1	1	0,040	0,040
1994	25-nov-94	SUND11	602	55550	012348	012351	55549	D1620	D1710	8	Gillnet	K52-21MM	HERRING	128	128	13,600	13,600

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1994	25-nov-94	SUND11	601	55550	012348	012351	55549	D1620	D1710	8	Gillnet	K52-18,5MM	HERRING	81	81	7,700	7,700
1994	25-nov-94	SUND11	603	55550	012348	012351	55549	D1620	D1710	8	Gillnet	K52-26MM	HERRING	30	30	4,000	4,000
1994	25-nov-94	SUND11	605	55550	012348	012351	55549	D1620	D1710	8	Gillnet	K52-28MM	HERRING	47	47	6,900	6,900
1994	25-nov-94	SUND11	604	55550	012348	012351	55549	D1620	D1710	8	Gillnet	K52-27MM	HERRING	65	65	10,000	10,000
1994	25-nov-94	SUND11	606	55550	012348	012351	55549	D1620	D1710	8	Gillnet	K52-29MM	HERRING	31	31	5,200	5,200
1994	25-nov-94	SUND11	606	55550	012348	012351	55549	D1620	D1710	8	Gillnet	K52-29MM	COD	1	1	1,000	1,000
1994	25-nov-94	SUND11	705	55562	012353	012353	55562	D1637	D1740	12	Gillnet	K52-28MM	HERRING	1	1	0,150	0,150
1994	25-nov-94	SUND11	703	55562	012353	012353	55562	D1637	D1740	12	Gillnet	K52-26MM	HERRING	3	3	0,320	0,320
1994	25-nov-94	SUND11	704	55562	012353	012353	55562	D1637	D1740	12	Gillnet	K52-27MM	HERRING	1	1	0,150	0,150
1994	25-nov-94	SUND11	702	55562	012353	012353	55562	D1637	D1740	12	Gillnet	K52-21MM	HERRING	13	13	1,200	1,200
1994	25-nov-94	SUND11	701	55562	012353	012353	55562	D1637	D1740	12	Gillnet	K52-18,5MM	HERRING	15	15	1,300	1,300
1994	25-nov-94	SUND11	706	55562	012353	012353	55562	D1637	D1740	12	Gillnet	K52-55MM	COD	1	1	0,900	0,900
1994	25-nov-94	SUND11	803	55518	012371	012372	55519	D1835	D2020	9	Gillnet	K52-27MM	HERRING	1	1	0,150	0,150
1994	25-nov-94	SUND11	804	55518	012371	012372	55519	D1835	D2020	9	Gillnet	K52-29MM	HERRING	4	4	0,700	0,700
1994	25-nov-94	SUND11	801	55518	012371	012372	55519	D1835	D2020	9	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100
1994	25-nov-94	SUND11	802	55518	012371	012372	55519	D1835	D2020	9	Gillnet	K52-21MM	HERRING	5	5	0,550	0,550
1994	25-nov-94	SUND11	903	55518	012371	012372	55524	D2036	D0819	8	Gillnet	K52-26MM	HERRING	7	7	0,800	0,800
1994	25-nov-94	SUND11	905	55518	012371	012372	55524	D2036	D0819	8	Gillnet	K52-28MM	HERRING	5	5	0,700	0,700
1994	25-nov-94	SUND11	902	55518	012371	012372	55524	D2036	D0819	8	Gillnet	K52-21MM	HERRING	21	21	2,200	2,200
1994	25-nov-94	SUND11	901	55518	012371	012372	55524	D2036	D0819	8	Gillnet	K52-18,5MM	HERRING	10	10	1,000	1,000
1994	25-nov-94	SUND11	904	55518	012371	012372	55524	D2036	D0819	8	Gillnet	K52-27MM	HERRING	5	5	0,800	0,800
1994	25-nov-94	SUND11	906	55518	012371	012372	55524	D2036	D0819	8	Gillnet	K52-55MM	COD	1	1	1,100	1,100
1994	25-nov-94	SUND11	1007	55497	012377	012377	55498	D2114	D0856	9	Gillnet	K52-60MM	DAB	1	1	0,200	0,200
1994	25-nov-94	SUND11	1001	55497	012377	012377	55498	D2114	D0856	9	Gillnet	K52-18,5MM	HERRING	4	4	0,400	0,400
1994	25-nov-94	SUND11	1002	55497	012377	012377	55498	D2114	D0856	9	Gillnet	K52-21MM	HERRING	5	5	0,700	0,700
1994	25-nov-94	SUND11	1003	55497	012377	012377	55498	D2114	D0856	9	Gillnet	K52-26MM	HERRING	12	12	1,800	1,800
1994	25-nov-94	SUND11	1004	55497	012377	012377	55498	D2114	D0856	9	Gillnet	K52-27MM	HERRING	7	7	1,500	1,500
1994	25-nov-94	SUND11	1006	55497	012377	012377	55498	D2114	D0856	9	Gillnet	K52-29MM	HERRING	4	4	0,900	0,900
1994	25-nov-94	SUND11	1005	55497	012377	012377	55498	D2114	D0856	9	Gillnet	K52-28MM	HERRING	1	1	0,190	0,190
1994	25-nov-94	SUND11	1006	55497	012377	012377	55498	D2114	D0856	9	Gillnet	K52-29MM	COD	2	2	0,220	0,220
1994	25-nov-94	SUND11	1007	55497	012377	012377	55498	D2114	D0856	9	Gillnet	K52-60MM	COD	2	2	2,400	2,400
1994	26-nov-94	SUND11	1101	55474	012397	012397	55477	D0934	D1509	8	Gillnet	K52-21MM	HERRING	1	1	0,125	0,125

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	26-nov-94	SUND11	1102	55474	012397	012397	55477	D0934	D1509	8	Gillnet	K52-28MM	COD	1	1	0,200	0,200
1994	26-nov-94	SUND11	1201	55449	012439	012441	55452	D1550	D1700	12	Gillnet	K52-28MM	HERRING	4	4	0,600	0,600
1994	26-nov-94	SUND11	1202	55449	012439	012441	55452	D1550	D1700	12	Gillnet	K52-18,5MM	HERRING	1	1	0,120	0,120
1994	26-nov-94	SUND11	1203	55449	012439	012441	55452	D1550	D1700	12	Gillnet	K52-29MM	HERRING	1	1	0,170	0,170
1994	26-nov-94	SUND11	1306	55438	012464	012465	55441	D1615	D1740	9	Gillnet	K52-29MM	HERRING	16	16	2,800	2,800
1994	26-nov-94	SUND11	1302	55438	012464	012465	55441	D1615	D1740	9	Gillnet	K52-21MM	HERRING	16	16	2,400	2,400
1994	26-nov-94	SUND11	1305	55438	012464	012465	55441	D1615	D1740	9	Gillnet	K52-28MM	HERRING	45	45	8,800	8,800
1994	26-nov-94	SUND11	1304	55438	012464	012465	55441	D1615	D1740	9	Gillnet	K52-27MM	HERRING	63	63	11,700	11,700
1994	26-nov-94	SUND11	1303	55438	012464	012465	55441	D1615	D1740	9	Gillnet	K52-26MM	HERRING	29	29	5,100	5,100
1994	26-nov-94	SUND11	1301	55438	012464	012465	55441	D1615	D1740	9	Gillnet	K52-18,5MM	HERRING	2	2	0,200	0,200
1994	26-nov-94	SUND11	1305	55438	012464	012465	55441	D1615	D1740	9	Gillnet	K52-28MM	COD	1	1	1,500	1,500
1994	26-nov-94	SUND11	1307	55438	012464	012465	55441	D1615	D1740	9	Gillnet	K52-55MM	COD	1	1	2,600	2,600
1994	27-nov-94	SUND11	1506	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-29MM	WHITING	1	1	0,180	0,180
1994	27-nov-94	SUND11	1504	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-27MM	WHITING	1	1	0,120	0,120
1994	27-nov-94	SUND11	1505	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-28MM	HERRING	77	221	17,200	49,400
1994	27-nov-94	SUND11	1506	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-29MM	HERRING	69	132	15,200	29,000
1994	27-nov-94	SUND11	1502	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-21MM	HERRING	11	11	1,600	1,600
1994	27-nov-94	SUND11	1501	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-18,5MM	HERRING	9	9	0,700	0,700
1994	27-nov-94	SUND11	1504	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-27MM	HERRING	97	249	22,400	57,400
1994	27-nov-94	SUND11	1503	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-26MM	HERRING	29	29	6,200	6,200
1994	27-nov-94	SUND11	1507	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-60MM	COD	1	1	1,600	1,600
1994	27-nov-94	SUND11	1506	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-29MM	COD	2	2	1,000	1,000
1994	27-nov-94	SUND11	1504	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-27MM	COD	1	1	1,100	1,100
1994	27-nov-94	SUND11	1501	55393	012577	012577	55394	D1520	D1820	14	Gillnet	K52-18,5MM	COD	1	1	0,200	0,200
1994	27-nov-94	SUND11	1408	55369	012562	012566	55372	D1555	D1740	14	Gillnet	K52-46MM	DAB	1	1	0,125	0,125
1994	27-nov-94	SUND11	1401	55369	012562	012566	55372	D1555	D1740	14	Gillnet	K52-18,5MM	HERRING	1	1	0,075	0,075
1994	27-nov-94	SUND11	1404	55369	012562	012566	55372	D1555	D1740	14	Gillnet	K52-27MM	HERRING	107	107	23,200	23,200
1994	27-nov-94	SUND11	1402	55369	012562	012566	55372	D1555	D1740	14	Gillnet	K52-21MM	HERRING	5	5	0,200	0,200
1994	27-nov-94	SUND11	1403	55369	012562	012566	55372	D1555	D1740	14	Gillnet	K52-26MM	HERRING	15	15	3,400	3,400
1994	27-nov-94	SUND11	1406	55369	012562	012566	55372	D1555	D1740	14	Gillnet	K52-29MM	HERRING	38	38	8,400	8,400
1994	27-nov-94	SUND11	1407	55369	012562	012566	55372	D1555	D1740	14	Gillnet	K52-34MM	HERRING	11	11	3,000	3,000
1994	27-nov-94	SUND11	1405	55369	012562	012566	55372	D1555	D1740	14	Gillnet	K52-28MM	HERRING	85	149	18,700	32,700

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	27-nov-94	SUND11	1403	55369	012562	012566	55372	D1555	D1740	14	Gillnet	K52-26MM	COD	1	1	1,300	1,300
1994	27-nov-94	SUND11	1409	55369	012562	012566	55372	D1555	D1740	14	Gillnet	K52-55MM	COD	1	1	1,100	1,100
1994	27-nov-94	SUND11	1408	55369	012562	012566	55372	D1555	D1740	14	Gillnet	K52-46MM	COD	1	1	0,900	0,900
1994	12-dec-94	SUND12	108	55476	012376	012376	55476	D1550	D1840	9	Gillnet	K52-55MM	DAB	1	1	0,125	0,125
1994	12-dec-94	SUND12	107	55476	012376	012376	55476	D1550	D1840	9	Gillnet	K52-34MM	HERRING	4	4	1,000	1,000
1994	12-dec-94	SUND12	103	55476	012376	012376	55476	D1550	D1840	9	Gillnet	K52-26MM	HERRING	144	144	25,200	25,200
1994	12-dec-94	SUND12	102	55476	012376	012376	55476	D1550	D1840	9	Gillnet	K52-21MM	HERRING	9	9	1,300	1,300
1994	12-dec-94	SUND12	101	55476	012376	012376	55476	D1550	D1840	9	Gillnet	K52-18,5MM	HERRING	1	1	0,200	0,200
1994	12-dec-94	SUND12	106	55476	012376	012376	55476	D1550	D1840	9	Gillnet	K52-29MM	HERRING	36	36	6,900	6,900
1994	12-dec-94	SUND12	105	55476	012376	012376	55476	D1550	D1840	9	Gillnet	K52-28MM	HERRING	50	50	9,500	9,500
1994	12-dec-94	SUND12	104	55476	012376	012376	55476	D1550	D1840	9	Gillnet	K52-27MM	HERRING	98	98	18,700	18,700
1994	12-dec-94	SUND12	104	55476	012376	012376	55476	D1550	D1840	9	Gillnet	K52-27MM	COD	2	2	0,335	0,335
1994	12-dec-94	SUND12	105	55476	012376	012376	55476	D1550	D1840	9	Gillnet	K52-28MM	COD	2	2	0,335	0,335
1994	12-dec-94	SUND12	206	55460	012414	012415	55459	D1615	D1745	12	Gillnet	K52-29MM	HERRING	2	2	0,400	0,400
1994	12-dec-94	SUND12	203	55460	012414	012415	55459	D1615	D1745	12	Gillnet	K52-26MM	HERRING	29	29	4,600	4,600
1994	12-dec-94	SUND12	202	55460	012414	012415	55459	D1615	D1745	12	Gillnet	K52-21MM	HERRING	10	10	1,300	1,300
1994	12-dec-94	SUND12	201	55460	012414	012415	55459	D1615	D1745	12	Gillnet	K52-18,5MM	HERRING	2	2	0,400	0,400
1994	12-dec-94	SUND12	205	55460	012414	012415	55459	D1615	D1745	12	Gillnet	K52-28MM	HERRING	4	4	0,700	0,700
1994	12-dec-94	SUND12	204	55460	012414	012415	55459	D1615	D1745	12	Gillnet	K52-27MM	HERRING	9	9	1,300	1,300
1994	12-dec-94	SUND12	202	55460	012414	012415	55459	D1615	D1745	12	Gillnet	K52-21MM	COD	2	2	0,150	0,150
1994	12-dec-94	SUND12	301	55483	012413	012414	55481	D1935	D2120	11	Gillnet	K52-18,5MM	HERRING	1	1	0,090	0,090
1994	12-dec-94	SUND12	303	55483	012413	012414	55481	D1935	D2120	11	Gillnet	K52-29MM	HERRING	6	6	1,000	1,000
1994	12-dec-94	SUND12	302	55483	012413	012414	55481	D1935	D2120	11	Gillnet	K52-28MM	HERRING	4	4	0,800	0,800
1994	14-dec-94	SUND12	502	55515	012351	012353	55513	D0515	D0800	10	Gillnet	K52-27MM	HERRING	2	2	0,300	0,300
1994	14-dec-94	SUND12	501	55515	012351	012353	55513	D0515	D0800	10	Gillnet	K52-26MM	HERRING	2	2	0,250	0,250
1994	14-dec-94	SUND12	504	55515	012351	012353	55513	D0515	D0800	10	Gillnet	K52-29MM	HERRING	4	4	0,700	0,700
1994	14-dec-94	SUND12	503	55515	012351	012353	55513	D0515	D0800	10	Gillnet	K52-28MM	HERRING	8	8	1,500	1,500
1994	14-dec-94	SUND12	505	55515	012351	012353	55513	D0515	D0800	10	Gillnet	K52-55MM	COD	1	1	0,800	0,800
1994	14-dec-94	SUND12	504	55515	012351	012353	55513	D0515	D0800	10	Gillnet	K52-29MM	COD	2	2	0,300	0,300
1994	14-dec-94	SUND12	602	55529	012343	012345	55527	D0615	D0825	11	Gillnet	K52-26MM	HERRING	15	15	2,500	2,500
1994	14-dec-94	SUND12	605	55529	012343	012345	55527	D0615	D0825	11	Gillnet	K52-29MM	HERRING	10	10	2,100	2,100
1994	14-dec-94	SUND12	607	55529	012343	012345	55527	D0615	D0825	11	Gillnet	K52-34MM	HERRING	2	2	0,400	0,400

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	14-dec-94	SUND12	604	55529	012343	012345	55527	D0615	D0825	11	Gillnet	K52-28MM	HERRING	10	10	1,700	1,700
1994	14-dec-94	SUND12	603	55529	012343	012345	55527	D0615	D0825	11	Gillnet	K52-27MM	HERRING	8	8	1,500	1,500
1994	14-dec-94	SUND12	601	55529	012343	012345	55527	D0615	D0825	11	Gillnet	K52-21MM	HERRING	6	6	0,800	0,800
1994	14-dec-94	SUND12	608	55529	012343	012345	55527	D0615	D0825	11	Gillnet	K52-55MM	COD	1	1	1,100	1,100
1994	14-dec-94	SUND12	605	55529	012343	012345	55527	D0615	D0825	11	Gillnet	K52-29MM	COD	1	1	0,100	0,100
1994	14-dec-94	SUND12	604	55529	012343	012345	55527	D0615	D0825	11	Gillnet	K52-28MM	COD	1	1	0,100	0,100
1994	14-dec-94	SUND12	607	55529	012343	012345	55527	D0615	D0825	11	Gillnet	K52-34MM	COD	1	1	0,200	0,200
1994	14-dec-94	SUND12	606	55529	012343	012345	55527	D0615	D0825	11	Gillnet	K52-46MM	COD	1	1	0,800	0,800
1994	14-dec-94	SUND12	706	55577	012346	012348	55576	D1600	D1800	11	Gillnet	K52-29MM	HERRING	41	41	7,000	7,000
1994	14-dec-94	SUND12	701	55577	012346	012348	55576	D1600	D1800	11	Gillnet	K52-18,5MM	HERRING	16	16	2,000	2,000
1994	14-dec-94	SUND12	702	55577	012346	012348	55576	D1600	D1800	11	Gillnet	K52-21MM	HERRING	61	61	7,200	7,200
1994	14-dec-94	SUND12	705	55577	012346	012348	55576	D1600	D1800	11	Gillnet	K52-28MM	HERRING	11	11	1,900	1,900
1994	14-dec-94	SUND12	704	55577	012346	012348	55576	D1600	D1800	11	Gillnet	K52-27MM	HERRING	11	11	1,700	1,700
1994	14-dec-94	SUND12	707	55577	012346	012348	55576	D1600	D1800	11	Gillnet	K52-34MM	HERRING	2	2	0,600	0,600
1994	14-dec-94	SUND12	703	55577	012346	012348	55576	D1600	D1800	11	Gillnet	K52-26MM	HERRING	17	17	2,600	2,600
1994	14-dec-94	SUND12	702	55577	012346	012348	55576	D1600	D1800	11	Gillnet	K52-21MM	COD	3	3	0,400	0,400
1994	14-dec-94	SUND12	703	55577	012346	012348	55576	D1600	D1800	11	Gillnet	K52-26MM	COD	4	4	0,400	0,400
1994	14-dec-94	SUND12	705	55577	012346	012348	55576	D1600	D1800	11	Gillnet	K52-28MM	COD	4	4	0,500	0,500
1994	14-dec-94	SUND12	704	55577	012346	012348	55576	D1600	D1800	11	Gillnet	K52-27MM	COD	1	1	0,100	0,100
1994	14-dec-94	SUND12	801	56002	012359	012354	56004	D1630	D1900	10	Gillnet	K52-21MM	HERRING	1	1	0,150	0,150
1994	14-dec-94	SUND12	803	56002	012359	012354	56004	D1630	D1900	10	Gillnet	K52-27MM	COD	1	1	0,100	0,100
1994	14-dec-94	SUND12	805	56002	012359	012354	56004	D1630	D1900	10	Gillnet	K52-60MM	COD	1	1	1,200	1,200
1994	14-dec-94	SUND12	804	56002	012359	012354	56004	D1630	D1900	10	Gillnet	K52-29MM	COD	1	1	0,150	0,150
1994	14-dec-94	SUND12	802	56002	012359	012354	56004	D1630	D1900	10	Gillnet	K52-26MM	SCULPIN	1	1	0,050	0,050
1994	14-dec-94	SUND12	901	55558	012347	012350	55557	D1945	D2230	10	Gillnet	K52-18,5MM	WHITING	1	1	0,050	0,050
1994	14-dec-94	SUND12	903	55558	012347	012350	55557	D1945	D2230	10	Gillnet	K52-26MM	HERRING	152	152	21,700	21,700
1994	14-dec-94	SUND12	902	55558	012347	012350	55557	D1945	D2230	10	Gillnet	K52-21MM	HERRING	60	60	7,400	7,400
1994	14-dec-94	SUND12	905	55558	012347	012350	55557	D1945	D2230	10	Gillnet	K52-28MM	HERRING	126	126	23,700	23,700
1994	14-dec-94	SUND12	901	55558	012347	012350	55557	D1945	D2230	10	Gillnet	K52-18,5MM	HERRING	41	41	5,000	5,000
1994	14-dec-94	SUND12	904	55558	012347	012350	55557	D1945	D2230	10	Gillnet	K52-27MM	HERRING	135	135	23,200	23,200
1994	14-dec-94	SUND12	906	55558	012347	012350	55557	D1945	D2230	10	Gillnet	K52-29MM	HERRING	133	133	22,700	22,700
1994	14-dec-94	SUND12	903	55558	012347	012350	55557	D1945	D2230	10	Gillnet	K52-26MM	COD	2	2	0,170	0,170

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	14-dec-94	SUND12	907	55558	012347	012350	55557	D1945	D2230	10	Gillnet	K52-60MM	COD	1	1	2,400	2,400
1994	14-dec-94	SUND12	905	55558	012347	012350	55557	D1945	D2230	10	Gillnet	K52-28MM	COD	1	1	2,000	2,000
1994	15-dec-94	SUND12	1103	55595	012434	012432	55593	D0105	D0215	14	Gillnet	K52-26MM	HERRING	11	11	1,800	1,800
1994	15-dec-94	SUND12	1102	55595	012434	012432	55593	D0105	D0215	14	Gillnet	K52-21MM	HERRING	4	4	0,500	0,500
1994	15-dec-94	SUND12	1106	55595	012434	012432	55593	D0105	D0215	14	Gillnet	K52-29MM	HERRING	19	19	4,000	4,000
1994	15-dec-94	SUND12	1105	55595	012434	012432	55593	D0105	D0215	14	Gillnet	K52-28MM	HERRING	6	6	1,400	1,400
1994	15-dec-94	SUND12	1104	55595	012434	012432	55593	D0105	D0215	14	Gillnet	K52-27MM	HERRING	12	12	2,400	2,400
1994	15-dec-94	SUND12	1101	55595	012434	012432	55593	D0105	D0215	14	Gillnet	K52-18,5MM	HERRING	1	1	0,150	0,150
1994	15-dec-94	SUND12	1206	55507	012460	012460	55507	D1620	D1850	8	Gillnet	K52-60MM	SAITHE	1	1	0,150	0,150
1994	15-dec-94	SUND12	1201	55507	012460	012460	55507	D1620	D1850	8	Gillnet	K52-21MM	HERRING	3	3	0,350	0,350
1994	15-dec-94	SUND12	1205	55507	012460	012460	55507	D1620	D1850	8	Gillnet	K52-29MM	HERRING	32	32	5,900	5,900
1994	15-dec-94	SUND12	1202	55507	012460	012460	55507	D1620	D1850	8	Gillnet	K52-26MM	HERRING	12	12	2,000	2,000
1994	15-dec-94	SUND12	1204	55507	012460	012460	55507	D1620	D1850	8	Gillnet	K52-28MM	HERRING	16	16	3,000	3,000
1994	15-dec-94	SUND12	1203	55507	012460	012460	55507	D1620	D1850	8	Gillnet	K52-27MM	HERRING	52	52	9,400	9,400
1994	15-dec-94	SUND12	1205	55507	012460	012460	55507	D1620	D1850	8	Gillnet	K52-29MM	COD	1	1	1,100	1,100
1994	15-dec-94	SUND12	1206	55507	012460	012460	55507	D1620	D1850	8	Gillnet	K52-60MM	COD	1	1	6,800	6,800
1994	15-dec-94	SUND12	1302	55537	012462	012462	55537	D1645	D1800	15	Gillnet	K52-26MM	HERRING	7	7	1,500	1,500
1994	15-dec-94	SUND12	1301	55537	012462	012462	55537	D1645	D1800	15	Gillnet	K52-21MM	HERRING	2	2	0,300	0,300
1994	15-dec-94	SUND12	1303	55537	012462	012462	55537	D1645	D1800	15	Gillnet	K52-27MM	HERRING	1	1	0,350	0,350
1994	15-dec-94	SUND12	1305	55537	012462	012462	55537	D1645	D1800	15	Gillnet	K52-29MM	HERRING	6	6	1,125	1,125
1994	15-dec-94	SUND12	1304	55537	012462	012462	55537	D1645	D1800	15	Gillnet	K52-28MM	HERRING	4	4	0,900	0,900
1994	15-dec-94	SUND12	1405	55415	012564	012564	55415	D2050	D2240	15	Gillnet	K52-29MM	HERRING	202	202	40,400	40,400
1994	15-dec-94	SUND12	1404	55415	012564	012564	55415	D2050	D2240	15	Gillnet	K52-28MM	HERRING	104	104	20,200	20,200
1994	15-dec-94	SUND12	1403	55415	012564	012564	55415	D2050	D2240	15	Gillnet	K52-27MM	HERRING	84	84	16,200	16,200
1994	15-dec-94	SUND12	1402	55415	012564	012564	55415	D2050	D2240	15	Gillnet	K52-26MM	HERRING	40	40	7,000	7,000
1994	15-dec-94	SUND12	1401	55415	012564	012564	55415	D2050	D2240	15	Gillnet	K52-18,5MM	HERRING	1	1	0,150	0,150
1994	15-dec-94	SUND12	1503	55397	012578	012578	55397	D2115	D2315	13	Gillnet	K52-28MM	WHITING	1	1	0,150	0,150
1994	15-dec-94	SUND12	1504	55397	012578	012578	55397	D2115	D2315	13	Gillnet	K52-29MM	HERRING	97	97	19,850	19,850
1994	15-dec-94	SUND12	1505	55397	012578	012578	55397	D2115	D2315	13	Gillnet	K52-34MM	HERRING	14	14	3,800	3,800
1994	15-dec-94	SUND12	1503	55397	012578	012578	55397	D2115	D2315	13	Gillnet	K52-28MM	HERRING	120	120	23,200	23,200
1994	15-dec-94	SUND12	1502	55397	012578	012578	55397	D2115	D2315	13	Gillnet	K52-27MM	HERRING	129	129	26,200	26,200
1994	15-dec-94	SUND12	1501	55397	012578	012578	55397	D2115	D2315	13	Gillnet	K52-26MM	HERRING	39	39	6,700	6,700

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1994	15-dec-94	SUND12	1504	55397	012578	012578	55397	D2115	D2315	13	Gillnet	K52-29MM	COD	2	2	2,850	2,850
1994	15-dec-94	SUND12	1507	55397	012578	012578	55397	D2115	D2315	13	Gillnet	K52-55MM	COD	2	2	6,400	6,400
1994	15-dec-94	SUND12	1506	55397	012578	012578	55397	D2115	D2315	13	Gillnet	K52-46MM	COD	1	1	1,350	1,350
1994	15-dec-94	SUND12	1505	55397	012578	012578	55397	D2115	D2315	13	Gillnet	K52-34MM	COD	1	1	3,000	3,000
1995	09-jan-95	SUND01	1201	55593	012437	012563	55372	D0125	D0225	11	Gillnet	HAV- -SILD	HERRING	96	96	31,050	31,050
1995	09-jan-95	SUND01	105	55403	012391	012394	55401	D1730	D1930	6	Gillnet	K52-34MM	HERRING	48	48	14,000	14,000
1995	09-jan-95	SUND01	104	55403	012391	012394	55401	D1730	D1930	6	Gillnet	K52-29MM	HERRING	111	323	22,500	65,500
1995	09-jan-95	SUND01	101	55403	012391	012394	55401	D1730	D1930	6	Gillnet	K52-26MM	HERRING	87	87	15,000	15,000
1995	09-jan-95	SUND01	103	55403	012391	012394	55401	D1730	D1930	6	Gillnet	K52-28MM	HERRING	115	342	22,500	67,000
1995	09-jan-95	SUND01	102	55403	012391	012394	55401	D1730	D1930	6	Gillnet	K52-27MM	HERRING	114	244	21,000	45,000
1995	09-jan-95	SUND01	103	55403	012391	012394	55401	D1730	D1930	6	Gillnet	K52-28MM	COD	1	1	0,600	0,600
1995	09-jan-95	SUND01	102	55403	012391	012394	55401	D1730	D1930	6	Gillnet	K52-27MM	COD	2	2	0,100	0,100
1995	13-jan-95	SUND01	205	55442	012376	012376	55444	D1645	D1755	8	Gillnet	K52-28MM	HERRING	40	40	6,700	6,700
1995	13-jan-95	SUND01	202	55442	012376	012376	55444	D1645	D1755	8	Gillnet	K52-21MM	HERRING	3	3	0,350	0,350
1995	13-jan-95	SUND01	206	55442	012376	012376	55444	D1645	D1755	8	Gillnet	K52-29MM	HERRING	90	90	15,700	15,700
1995	13-jan-95	SUND01	207	55442	012376	012376	55444	D1645	D1755	8	Gillnet	K52-34MM	HERRING	17	17	4,700	4,700
1995	13-jan-95	SUND01	201	55442	012376	012376	55444	D1645	D1755	8	Gillnet	K52-18,5MM	HERRING	2	2	0,250	0,250
1995	13-jan-95	SUND01	203	55442	012376	012376	55444	D1645	D1755	8	Gillnet	K52-26MM	HERRING	24	24	3,600	3,600
1995	13-jan-95	SUND01	204	55442	012376	012376	55444	D1645	D1755	8	Gillnet	K52-27MM	HERRING	49	49	8,600	8,600
1995	13-jan-95	SUND01	208	55442	012376	012376	55444	D1645	D1755	8	Gillnet	K52-55MM	COD	1	1	1,200	1,200
1995	13-jan-95	SUND01	206	55442	012376	012376	55444	D1645	D1755	8	Gillnet	K52-29MM	COD	1	1	0,125	0,125
1995	13-jan-95	SUND01	307	55510	012458	012459	55512	D1920	D2140	10	Gillnet	K52-28MM	HERRING	53	53	9,450	9,450
1995	13-jan-95	SUND01	302	55510	012458	012459	55512	D1920	D2140	10	Gillnet	K52-21MM	HERRING	18	18	2,200	2,200
1995	13-jan-95	SUND01	304	55510	012458	012459	55512	D1920	D2140	10	Gillnet	K52-27MM	HERRING	27	27	4,500	4,500
1995	13-jan-95	SUND01	301	55510	012458	012459	55512	D1920	D2140	10	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100
1995	13-jan-95	SUND01	303	55510	012458	012459	55512	D1920	D2140	10	Gillnet	K52-26MM	HERRING	19	19	2,750	2,750
1995	13-jan-95	SUND01	305	55510	012458	012459	55512	D1920	D2140	10	Gillnet	K52-29MM	HERRING	17	17	3,200	3,200
1995	13-jan-95	SUND01	306	55510	012458	012459	55512	D1920	D2140	10	Gillnet	K52-34MM	FLOUNDER	1	1	0,150	0,150
1995	13-jan-95	SUND01	402	55550	012465	012465	55552	D2205	D0005	12	Gillnet	K52-27MM	HERRING	32	32	6,200	6,200
1995	13-jan-95	SUND01	401	55550	012465	012465	55552	D2205	D0005	12	Gillnet	K52-26MM	HERRING	4	4	0,700	0,700
1995	13-jan-95	SUND01	406	55550	012465	012465	55552	D2205	D0005	12	Gillnet	K52-34MM	HERRING	20	20	5,200	5,200
1995	13-jan-95	SUND01	403	55550	012465	012465	55552	D2205	D0005	12	Gillnet	K52-28MM	HERRING	39	39	6,500	6,500

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	13-jan-95	SUND01	405	55550	012465	012465	55552	D2205	D0005	12	Gillnet	K52-29MM	HERRING	72	72	13,200	13,200
1995	13-jan-95	SUND01	407	55550	012465	012465	55552	D2205	D0005	12	Gillnet	K52-55MM	COD	4	4	9,100	9,100
1995	14-jan-95	SUND01	508	55593	012437	012438	55595	D0125	D0325	13	Gillnet	K52-55MM	DAB	1	1	0,100	0,100
1995	14-jan-95	SUND01	501	55593	012437	012438	55595	D0125	D0325	13	Gillnet	K52-18,5MM	HERRING	16	16	3,200	3,200
1995	14-jan-95	SUND01	506	55593	012437	012438	55595	D0125	D0325	13	Gillnet	K52-29MM	HERRING	43	43	8,200	8,200
1995	14-jan-95	SUND01	502	55593	012437	012438	55595	D0125	D0325	13	Gillnet	K52-21MM	HERRING	40	40	6,000	6,000
1995	14-jan-95	SUND01	507	55593	012437	012438	55595	D0125	D0325	13	Gillnet	K52-34MM	HERRING	14	14	3,900	3,900
1995	14-jan-95	SUND01	505	55593	012437	012438	55595	D0125	D0325	13	Gillnet	K52-28MM	HERRING	57	57	9,750	9,750
1995	14-jan-95	SUND01	503	55593	012437	012438	55595	D0125	D0325	13	Gillnet	K52-26MM	HERRING	13	13	2,400	2,400
1995	14-jan-95	SUND01	504	55593	012437	012438	55595	D0125	D0325	13	Gillnet	K52-27MM	HERRING	15	15	2,300	2,300
1995	14-jan-95	SUND01	604	55496	012367	012371	55496	D1900	D2105	9	Gillnet	K52-27MM	HERRING	100	100	16,000	16,000
1995	14-jan-95	SUND01	606	55496	012367	012371	55496	D1900	D2105	9	Gillnet	K52-29MM	HERRING	117	212	21,000	38,000
1995	14-jan-95	SUND01	607	55496	012367	012371	55496	D1900	D2105	9	Gillnet	K52-34MM	HERRING	10	10	2,700	2,700
1995	14-jan-95	SUND01	602	55496	012367	012371	55496	D1900	D2105	9	Gillnet	K52-21MM	HERRING	89	217	9,700	23,700
1995	14-jan-95	SUND01	601	55496	012367	012371	55496	D1900	D2105	9	Gillnet	K52-18,5MM	HERRING	91	177	9,200	17,900
1995	14-jan-95	SUND01	603	55496	012367	012371	55496	D1900	D2105	9	Gillnet	K52-26MM	HERRING	94	94	17,000	17,000
1995	14-jan-95	SUND01	605	55496	012367	012371	55496	D1900	D2105	9	Gillnet	K52-28MM	HERRING	119	119	20,000	20,000
1995	14-jan-95	SUND01	604	55496	012367	012371	55496	D1900	D2105	9	Gillnet	K52-27MM	COD	2	2	0,300	0,300
1995	14-jan-95	SUND01	608	55496	012367	012371	55496	D1900	D2105	9	Gillnet	K52-55MM	COD	3	3	3,400	3,400
1995	15-jan-95	SUND01	805	55433	012484	012486	55434	D0215	D0415	10	Gillnet	K52-34MM	HERRING	4	4	1,300	1,300
1995	15-jan-95	SUND01	804	55433	012484	012486	55434	D0215	D0415	10	Gillnet	K52-29MM	HERRING	20	20	4,100	4,100
1995	15-jan-95	SUND01	802	55433	012484	012486	55434	D0215	D0415	10	Gillnet	K52-26MM	HERRING	7	7	1,200	1,200
1995	15-jan-95	SUND01	801	55433	012484	012486	55434	D0215	D0415	10	Gillnet	K52-21MM	HERRING	18	18	2,000	2,000
1995	15-jan-95	SUND01	803	55433	012484	012486	55434	D0215	D0415	10	Gillnet	K52-28MM	HERRING	2	2	0,300	0,300
1995	15-jan-95	SUND01	907	55417	012562	012561	55418	D1650	D1750	15	Gillnet	K52-34MM	HERRING	8	8	2,400	2,400
1995	15-jan-95	SUND01	901	55417	012562	012561	55418	D1650	D1750	15	Gillnet	K52-18,5MM	HERRING	4	4	0,300	0,300
1995	15-jan-95	SUND01	906	55417	012562	012561	55418	D1650	D1750	15	Gillnet	K52-29MM	HERRING	41	41	8,400	8,400
1995	15-jan-95	SUND01	905	55417	012562	012561	55418	D1650	D1750	15	Gillnet	K52-28MM	HERRING	44	44	8,100	8,100
1995	15-jan-95	SUND01	903	55417	012562	012561	55418	D1650	D1750	15	Gillnet	K52-26MM	HERRING	52	52	8,400	8,400
1995	15-jan-95	SUND01	904	55417	012562	012561	55418	D1650	D1750	15	Gillnet	K52-27MM	HERRING	55	55	10,400	10,400
1995	15-jan-95	SUND01	902	55417	012562	012561	55418	D1650	D1750	15	Gillnet	K52-21MM	HERRING	47	47	5,200	5,200
1995	15-jan-95	SUND01	905	55417	012562	012561	55418	D1650	D1750	15	Gillnet	K52-28MM	COD	1	1	1,000	1,000

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	15-jan-95	SUND01	907	55417	012562	012561	55418	D1650	D1750	15	Gillnet	K52-34MM	COD	1	1	0,900	0,900
1995	15-jan-95	SUND01	906	55417	012562	012561	55418	D1650	D1750	15	Gillnet	K52-29MM	COD	1	1	0,600	0,600
1995	15-jan-95	SUND01	904	55417	012562	012561	55418	D1650	D1750	15	Gillnet	K52-27MM	COD	1	1	2,000	2,000
1995	15-jan-95	SUND01	1006	55392	012581	012583	55394	D1850	D1950	13	Gillnet	K52-55MM	HERRING	1	1	0,225	0,225
1995	15-jan-95	SUND01	1005	55392	012581	012583	55394	D1850	D1950	13	Gillnet	K52-34MM	HERRING	44	44	11,200	11,200
1995	15-jan-95	SUND01	1004	55392	012581	012583	55394	D1850	D1950	13	Gillnet	K52-29MM	HERRING	85	170	16,000	32,000
1995	15-jan-95	SUND01	1001	55392	012581	012583	55394	D1850	D1950	13	Gillnet	K52-26MM	HERRING	121	121	20,000	20,000
1995	15-jan-95	SUND01	1003	55392	012581	012583	55394	D1850	D1950	13	Gillnet	K52-28MM	HERRING	80	156	14,200	27,700
1995	15-jan-95	SUND01	1002	55392	012581	012583	55394	D1850	D1950	13	Gillnet	K52-27MM	HERRING	93	191	17,000	35,000
1995	15-jan-95	SUND01	1003	55392	012581	012583	55394	D1850	D1950	13	Gillnet	K52-28MM	COD	1	1	5,750	5,750
1995	15-jan-95	SUND01	1005	55392	012581	012583	55394	D1850	D1950	13	Gillnet	K52-34MM	COD	1	1	1,200	1,200
1995	15-jan-95	SUND01	1006	55392	012581	012583	55394	D1850	D1950	13	Gillnet	K52-55MM	COD	2	2	2,700	2,700
1995	15-jan-95	SUND01	1102	55370	012560	012563	55372	D2155	D2255	15	Gillnet	K52-21MM	HERRING	2	2	0,200	0,200
1995	15-jan-95	SUND01	1103	55370	012560	012563	55372	D2155	D2255	15	Gillnet	K52-29MM	HERRING	1	1	0,125	0,125
1995	15-jan-95	SUND01	1102	55370	012560	012563	55372	D2155	D2255	15	Gillnet	K52-21MM	COD	2	2	0,450	0,450
1995	15-jan-95	SUND01	1101	55370	012560	012563	55372	D2155	D2255	15	Gillnet	K52-18,5MM	COD	1	1	0,100	0,100
1995	15-jan-95	SUND01	704	55465	012372	012376	55465	D2315	D0015	7	Gillnet	K52-27MM	HERRING	19	19	3,000	3,000
1995	15-jan-95	SUND01	703	55465	012372	012376	55465	D2315	D0015	7	Gillnet	K52-26MM	HERRING	13	13	1,800	1,800
1995	15-jan-95	SUND01	702	55465	012372	012376	55465	D2315	D0015	7	Gillnet	K52-21MM	HERRING	8	8	0,900	0,900
1995	15-jan-95	SUND01	705	55465	012372	012376	55465	D2315	D0015	7	Gillnet	K52-28MM	HERRING	31	31	5,200	5,200
1995	15-jan-95	SUND01	706	55465	012372	012376	55465	D2315	D0015	7	Gillnet	K52-29MM	HERRING	40	40	7,300	7,300
1995	15-jan-95	SUND01	701	55465	012372	012376	55465	D2315	D0015	7	Gillnet	K52-18,5MM	HERRING	19	19	2,000	2,000
1995	15-jan-95	SUND01	707	55465	012372	012376	55465	D2315	D0015	7	Gillnet	K52-34MM	HERRING	1	1	0,200	0,200
1995	15-jan-95	SUND01	706	55465	012372	012376	55465	D2315	D0015	7	Gillnet	K52-29MM	COD	1	1	1,800	1,800
1995	06-feb-95	SUND02	106	55461	012373	012375	55465	D1615	D1815	6	Gillnet	K52-29MM	HERRING	106	0	42,500	42,500
1995	06-feb-95	SUND02	103	55461	012373	012375	55465	D1615	D1815	6	Gillnet	K52-26MM	HERRING	103	315	16,500	50,500
1995	06-feb-95	SUND02	104	55461	012373	012375	55465	D1615	D1815	6	Gillnet	K52-27MM	HERRING	105	105	18,500	18,500
1995	06-feb-95	SUND02	102	55461	012373	012375	55465	D1615	D1815	6	Gillnet	K52-21MM	HERRING	167	744	20,200	90,000
1995	06-feb-95	SUND02	105	55461	012373	012375	55465	D1615	D1815	6	Gillnet	K52-28MM	HERRING	101	101	16,500	16,500
1995	06-feb-95	SUND02	101	55461	012373	012375	55465	D1615	D1815	6	Gillnet	K52-18,5MM	HERRING	179	179	18,400	18,400
1995	06-feb-95	SUND02	107	55461	012373	012375	55465	D1615	D1815	6	Gillnet	K52-34MM	HERRING	10	10	2,500	2,500
1995	06-feb-95	SUND02	104	55461	012373	012375	55465	D1615	D1815	6	Gillnet	K52-27MM	COD	1	1	0,220	0,220

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	06-feb-95	SUND02	108	55461	012373	012375	55465	D1615	D1815	6	Gillnet	K52-55MM	COD	2	2	2,000	2,000
1995	06-feb-95	SUND02	1301	55300	012373	012375	56025	D2200	D2300	10	Gillnet	HAV- -SILD	HERRING	64	64	9,270	9,270
1995	08-feb-95	SUND02	205	55403	012389	012391	55401	D1635	D1705	5	Gillnet	K52-28MM	HERRING	41	41	6,400	6,400
1995	08-feb-95	SUND02	204	55403	012389	012391	55401	D1635	D1705	5	Gillnet	K52-27MM	HERRING	7	7	1,000	1,000
1995	08-feb-95	SUND02	203	55403	012389	012391	55401	D1635	D1705	5	Gillnet	K52-26MM	HERRING	4	4	0,550	0,550
1995	08-feb-95	SUND02	207	55403	012389	012391	55401	D1635	D1705	5	Gillnet	K52-34MM	HERRING	3	3	0,700	0,700
1995	08-feb-95	SUND02	202	55403	012389	012391	55401	D1635	D1705	5	Gillnet	K52-21MM	HERRING	3	3	0,350	0,350
1995	08-feb-95	SUND02	206	55403	012389	012391	55401	D1635	D1705	5	Gillnet	K52-29MM	HERRING	19	19	3,800	3,800
1995	08-feb-95	SUND02	202	55403	012389	012391	55401	D1635	D1705	5	Gillnet	K52-21MM	COD	1	1	0,100	0,100
1995	08-feb-95	SUND02	201	55403	012389	012391	55401	D1635	D1705	5	Gillnet	K52-18,5MM	COD	1	1	0,060	0,060
1995	08-feb-95	SUND02	301	55497	012364	012367	55495	D1900	D2100	8	Gillnet	K52-18,5MM	HERRING	17	17	1,700	1,700
1995	08-feb-95	SUND02	305	55497	012364	012367	55495	D1900	D2100	8	Gillnet	K52-28MM	HERRING	15	15	2,600	2,600
1995	08-feb-95	SUND02	306	55497	012364	012367	55495	D1900	D2100	8	Gillnet	K52-29MM	HERRING	26	26	4,000	4,000
1995	08-feb-95	SUND02	307	55497	012364	012367	55495	D1900	D2100	8	Gillnet	K52-34MM	HERRING	4	4	1,000	1,000
1995	08-feb-95	SUND02	304	55497	012364	012367	55495	D1900	D2100	8	Gillnet	K52-27MM	HERRING	42	42	8,600	8,600
1995	08-feb-95	SUND02	303	55497	012364	012367	55495	D1900	D2100	8	Gillnet	K52-26MM	HERRING	19	19	2,700	2,700
1995	08-feb-95	SUND02	302	55497	012364	012367	55495	D1900	D2100	8	Gillnet	K52-21MM	HERRING	38	38	4,000	4,000
1995	08-feb-95	SUND02	304	55497	012364	012367	55495	D1900	D2100	8	Gillnet	K52-27MM	COD	3	3	6,100	6,100
1995	08-feb-95	SUND02	308	55497	012364	012367	55495	D1900	D2100	8	Gillnet	K52-55MM	COD	2	2	2,100	2,100
1995	08-feb-95	SUND02	307	55497	012364	012367	55495	D1900	D2100	8	Gillnet	K52-34MM	COD	1	1	1,100	1,100
1995	08-feb-95	SUND02	405	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-28MM	HERRING	36	36	7,200	7,200
1995	08-feb-95	SUND02	403	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-26MM	HERRING	27	27	3,700	3,700
1995	08-feb-95	SUND02	402	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-21MM	HERRING	44	44	4,200	4,200
1995	08-feb-95	SUND02	401	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-18,5MM	HERRING	86	86	7,500	7,500
1995	08-feb-95	SUND02	406	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-29MM	HERRING	9	9	1,400	1,400
1995	08-feb-95	SUND02	404	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-27MM	HERRING	34	34	5,900	5,900
1995	08-feb-95	SUND02	407	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-34MM	HERRING	2	2	0,500	0,500
1995	08-feb-95	SUND02	404	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-27MM	COD	2	2	0,400	0,400
1995	08-feb-95	SUND02	403	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-26MM	COD	1	1	0,075	0,075
1995	08-feb-95	SUND02	408	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-55MM	COD	1	1	1,000	1,000
1995	08-feb-95	SUND02	405	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-28MM	COD	2	2	1,350	1,350
1995	08-feb-95	SUND02	406	55518	012355	012358	55517	D2200	D0000	12	Gillnet	K52-29MM	COD	1	1	0,100	0,100

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	09-feb-95	SUND02	505	55533	012343	012346	55532	D0115	D0250	11	Gillnet	K52-28MM	HERRING	4	4	0,650	0,650
1995	09-feb-95	SUND02	503	55533	012343	012346	55532	D0115	D0250	11	Gillnet	K52-26MM	HERRING	7	7	0,900	0,900
1995	09-feb-95	SUND02	506	55533	012343	012346	55532	D0115	D0250	11	Gillnet	K52-29MM	HERRING	7	7	1,400	1,400
1995	09-feb-95	SUND02	502	55533	012343	012346	55532	D0115	D0250	11	Gillnet	K52-21MM	HERRING	8	8	0,800	0,800
1995	09-feb-95	SUND02	501	55533	012343	012346	55532	D0115	D0250	11	Gillnet	K52-18,5MM	HERRING	7	7	0,700	0,700
1995	09-feb-95	SUND02	504	55533	012343	012346	55532	D0115	D0250	11	Gillnet	K52-27MM	HERRING	3	3	0,450	0,450
1995	09-feb-95	SUND02	505	55533	012343	012346	55532	D0115	D0250	11	Gillnet	K52-28MM	COD	1	1	0,450	0,450
1995	09-feb-95	SUND02	607	55553	012352	012349	55555	D0315	D0420	11	Gillnet	K52-34MM	HERRING	2	2	0,500	0,500
1995	09-feb-95	SUND02	601	55553	012352	012349	55555	D0315	D0420	11	Gillnet	K52-18,5MM	HERRING	9	9	1,000	1,000
1995	09-feb-95	SUND02	606	55553	012352	012349	55555	D0315	D0420	11	Gillnet	K52-29MM	HERRING	7	7	1,200	1,200
1995	09-feb-95	SUND02	603	55553	012352	012349	55555	D0315	D0420	11	Gillnet	K52-26MM	HERRING	14	14	2,000	2,000
1995	09-feb-95	SUND02	605	55553	012352	012349	55555	D0315	D0420	11	Gillnet	K52-28MM	HERRING	11	11	2,000	2,000
1995	09-feb-95	SUND02	602	55553	012352	012349	55555	D0315	D0420	11	Gillnet	K52-21MM	HERRING	14	14	1,700	1,700
1995	09-feb-95	SUND02	604	55553	012352	012349	55555	D0315	D0420	11	Gillnet	K52-27MM	HERRING	9	9	1,500	1,500
1995	09-feb-95	SUND02	605	55553	012352	012349	55555	D0315	D0420	11	Gillnet	K52-28MM	COD	2	2	2,690	2,690
1995	09-feb-95	SUND02	602	55553	012352	012349	55555	D0315	D0420	11	Gillnet	K52-21MM	COD	1	1	0,050	0,050
1995	09-feb-95	SUND02	603	55553	012352	012349	55555	D0315	D0420	11	Gillnet	K52-26MM	COD	1	1	0,070	0,070
1995	09-feb-95	SUND02	705	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-28MM	HERRING	26	26	3,900	3,900
1995	09-feb-95	SUND02	702	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-21MM	HERRING	99	339	9,500	32,500
1995	09-feb-95	SUND02	701	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-18,5MM	HERRING	108	108	9,200	9,200
1995	09-feb-95	SUND02	704	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-27MM	HERRING	35	35	5,100	5,100
1995	09-feb-95	SUND02	706	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-29MM	HERRING	23	23	3,700	3,700
1995	09-feb-95	SUND02	703	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-26MM	HERRING	98	98	12,400	12,400
1995	09-feb-95	SUND02	708	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-55MM	FLOUNDER	1	1	0,300	0,300
1995	09-feb-95	SUND02	705	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-28MM	COD	7	7	0,800	0,800
1995	09-feb-95	SUND02	706	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-29MM	COD	2	2	0,200	0,200
1995	09-feb-95	SUND02	707	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-34MM	COD	2	2	2,200	2,200
1995	09-feb-95	SUND02	704	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-27MM	COD	5	5	0,600	0,600
1995	09-feb-95	SUND02	703	56003	012356	012357	56001	D1645	D1745	8	Gillnet	K52-26MM	COD	1	1	0,100	0,100
1995	09-feb-95	SUND02	805	55592	012348	012348	55590	D2015	D2120	9	Gillnet	K52-28MM	HERRING	48	48	7,000	7,000
1995	09-feb-95	SUND02	804	55592	012348	012348	55590	D2015	D2120	9	Gillnet	K52-27MM	HERRING	44	44	6,400	6,400
1995	09-feb-95	SUND02	803	55592	012348	012348	55590	D2015	D2120	9	Gillnet	K52-26MM	HERRING	38	38	4,600	4,600

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	09-feb-95	SUND02	801	55592	012348	012348	55590	D2015	D2120	9	Gillnet	K52-18,5MM	HERRING	11	11	1,000	1,000
1995	09-feb-95	SUND02	802	55592	012348	012348	55590	D2015	D2120	9	Gillnet	K52-21MM	HERRING	80	80	8,200	8,200
1995	09-feb-95	SUND02	807	55592	012348	012348	55590	D2015	D2120	9	Gillnet	K52-34MM	HERRING	2	2	0,500	0,500
1995	09-feb-95	SUND02	806	55592	012348	012348	55590	D2015	D2120	9	Gillnet	K52-29MM	HERRING	52	52	8,200	8,200
1995	09-feb-95	SUND02	805	55592	012348	012348	55590	D2015	D2120	9	Gillnet	K52-28MM	COD	2	2	0,200	0,200
1995	09-feb-95	SUND02	804	55592	012348	012348	55590	D2015	D2120	9	Gillnet	K52-27MM	COD	4	4	0,660	0,660
1995	10-feb-95	SUND02	907	55441	012376	012376	55443	D0040	D0100	7	Gillnet	K52-34MM	HERRING	9	9	2,200	2,200
1995	10-feb-95	SUND02	906	55441	012376	012376	55443	D0040	D0100	7	Gillnet	K52-29MM	HERRING	158	158	27,500	27,500
1995	10-feb-95	SUND02	902	55441	012376	012376	55443	D0040	D0100	7	Gillnet	K52-21MM	HERRING	103	298	11,700	33,900
1995	10-feb-95	SUND02	905	55441	012376	012376	55443	D0040	D0100	7	Gillnet	K52-28MM	HERRING	114	377	18,000	59,500
1995	10-feb-95	SUND02	904	55441	012376	012376	55443	D0040	D0100	7	Gillnet	K52-27MM	HERRING	96	416	15,000	65,000
1995	10-feb-95	SUND02	903	55441	012376	012376	55443	D0040	D0100	7	Gillnet	K52-26MM	HERRING	87	653	12,000	90,000
1995	10-feb-95	SUND02	901	55441	012376	012376	55443	D0040	D0100	7	Gillnet	K52-18,5MM	HERRING	91	91	10,000	10,000
1995	10-feb-95	SUND02	1003	55550	012465	012464	55552	D1630	D1730	11	Gillnet	K52-26MM	HERRING	2	2	0,250	0,250
1995	10-feb-95	SUND02	1002	55550	012465	012464	55552	D1630	D1730	11	Gillnet	K52-21MM	HERRING	2	2	0,200	0,200
1995	10-feb-95	SUND02	1007	55550	012465	012464	55552	D1630	D1730	11	Gillnet	K52-34MM	HERRING	2	2	0,250	0,250
1995	10-feb-95	SUND02	1005	55550	012465	012464	55552	D1630	D1730	11	Gillnet	K52-28MM	HERRING	4	4	0,600	0,600
1995	10-feb-95	SUND02	1004	55550	012465	012464	55552	D1630	D1730	11	Gillnet	K52-27MM	HERRING	1	1	0,125	0,125
1995	10-feb-95	SUND02	1006	55550	012465	012464	55552	D1630	D1730	11	Gillnet	K52-29MM	HERRING	9	9	1,700	1,700
1995	10-feb-95	SUND02	1001	55550	012465	012464	55552	D1630	D1730	11	Gillnet	K52-18,5MM	COD	2	2	0,120	0,120
1995	10-feb-95	SUND02	1102	55505	012462	012460	55506	D1835	D1935	12	Gillnet	K52-28MM	WHITING	1	1	0,110	0,110
1995	10-feb-95	SUND02	1101	55505	012462	012460	55506	D1835	D1935	12	Gillnet	K52-27MM	COD	1	1	0,450	0,450
1995	10-feb-95	SUND02	1104	55505	012462	012460	55506	D1835	D1935	12	Gillnet	K52-55MM	COD	3	3	2,750	2,750
1995	10-feb-95	SUND02	1103	55505	012462	012460	55506	D1835	D1935	12	Gillnet	K52-29MM	COD	3	3	0,830	0,830
1995	10-feb-95	SUND02	1201	55396	012576	012578	55398	D2130	D2155	13	Gillnet	K52-18,5MM	HERRING	2	2	0,150	0,150
1995	10-feb-95	SUND02	1205	55396	012576	012578	55398	D2130	D2155	13	Gillnet	K52-29MM	HERRING	3	3	0,500	0,500
1995	10-feb-95	SUND02	1204	55396	012576	012578	55398	D2130	D2155	13	Gillnet	K52-28MM	HERRING	4	4	0,600	0,600
1995	10-feb-95	SUND02	1203	55396	012576	012578	55398	D2130	D2155	13	Gillnet	K52-26MM	HERRING	1	1	0,120	0,120
1995	10-feb-95	SUND02	1202	55396	012576	012578	55398	D2130	D2155	13	Gillnet	K52-21MM	HERRING	22	22	2,400	2,400
1995	27-feb-95	SUND03	2101	55333	012497	012498	55335	D1630	D1730	10	Gillnet	K52-27MM	HERRING	1	1	0,300	0,300
1995	27-feb-95	SUND03	2201	55373	012560	012563	55375	D1920	D2010	16	Gillnet	K52-26MM	HERRING	1	1	0,125	0,125
1995	27-feb-95	SUND03	2202	55373	012560	012563	55375	D1920	D2010	16	Gillnet	K52-27MM	HERRING	2	2	0,300	0,300

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	27-feb-95	SUND03	2204	55373	012560	012563	55375	D1920	D2010	16	Gillnet	K52-29MM	HERRING	5	5	0,800	0,800
1995	27-feb-95	SUND03	2203	55373	012560	012563	55375	D1920	D2010	16	Gillnet	K52-28MM	HERRING	6	6	0,700	0,700
1995	28-feb-95	SUND03	2301	55439	012371	012373	55438	D1655	D1755	6	Gillnet	K52-21MM	COD	1	1	0,125	0,125
1995	28-feb-95	SUND03	2302	55439	012371	012373	55438	D1655	D1755	6	Gillnet	K52-26MM	COD	1	1	0,200	0,200
1995	28-feb-95	SUND03	2303	55439	012371	012373	55438	D1655	D1755	6	Gillnet	K52-29MM	COD	1	1	0,175	0,175
1995	28-feb-95	SUND03	2401	55420	012415	012416	55418	D1850	D1925	16	Gillnet	K52-27MM	HERRING	2	2	0,325	0,325
1995	28-feb-95	SUND03	2403	55420	012415	012415	55418	D1850	D1925	16	Gillnet	K52-29MM	HERRING	1	1	0,250	0,250
1995	28-feb-95	SUND03	2402	55420	012415	012416	55418	D1850	D1925	16	Gillnet	K52-28MM	HERRING	2	2	0,350	0,350
1995	28-feb-95	SUND03	2502	55465	012388	012390	55464	D2040	D2240	8	Gillnet	K52-27MM	HERRING	1	1	0,200	0,200
1995	28-feb-95	SUND03	2501	55465	012388	012390	55464	D2040	D2240	8	Gillnet	K52-26MM	HERRING	1	1	0,200	0,200
1995	28-feb-95	SUND03	2503	55465	012388	012390	55464	D2040	D2240	8	Gillnet	K52-28MM	HERRING	2	2	0,400	0,400
1995	28-feb-95	SUND03	2505	55465	012388	012390	55464	D2040	D2240	8	Gillnet	K52-34MM	HERRING	2	2	0,600	0,600
1995	28-feb-95	SUND03	2504	55465	012388	012390	55464	D2040	D2240	8	Gillnet	K52-29MM	HERRING	4	4	0,800	0,800
1995	28-feb-95	SUND03	2502	55465	012388	012390	55464	D2040	D2240	8	Gillnet	K52-27MM	COD	1	1	0,100	0,100
1995	28-feb-95	SUND03	2503	55465	012388	012390	55464	D2040	D2240	8	Gillnet	K52-28MM	COD	4	4	0,500	0,500
1995	28-feb-95	SUND03	2501	55465	012388	012390	55464	D2040	D2240	8	Gillnet	K52-26MM	COD	1	1	0,200	0,200
1995	02-mar-95	SUND03	2601	55493	012389	012389	55495	D0120	D0745	9	Gillnet	K52-21MM	HERRING	2	2	0,400	0,400
1995	02-mar-95	SUND03	2602	55493	012389	012389	55495	D0120	D0745	9	Gillnet	K52-26MM	HERRING	13	13	1,700	1,700
1995	02-mar-95	SUND03	2604	55493	012389	012389	55495	D0120	D0745	9	Gillnet	K52-28MM	HERRING	17	17	3,400	3,400
1995	02-mar-95	SUND03	2603	55493	012389	012389	55495	D0120	D0745	9	Gillnet	K52-27MM	HERRING	11	11	2,000	2,000
1995	02-mar-95	SUND03	2607	55493	012389	012389	55495	D0120	D0745	9	Gillnet	K52-34MM	HERRING	7	7	2,000	2,000
1995	02-mar-95	SUND03	2605	55493	012389	012389	55495	D0120	D0745	9	Gillnet	K52-29MM	HERRING	27	27	5,300	5,300
1995	02-mar-95	SUND03	2605	55493	012389	012389	55495	D0120	D0745	9	Gillnet	K52-29MM	COD	20	20	3,500	3,500
1995	02-mar-95	SUND03	2604	55493	012389	012389	55495	D0120	D0745	9	Gillnet	K52-28MM	COD	17	17	2,700	2,700
1995	02-mar-95	SUND03	2603	55493	012389	012389	55495	D0120	D0745	9	Gillnet	K52-27MM	COD	7	7	1,400	1,400
1995	02-mar-95	SUND03	2607	55493	012389	012389	55495	D0120	D0745	9	Gillnet	K52-34MM	COD	5	5	3,300	3,300
1995	02-mar-95	SUND03	2601	55493	012389	012389	55495	D0120	D0745	9	Gillnet	K52-21MM	COD	3	3	0,500	0,500
1995	02-mar-95	SUND03	2703	55516	012388	012388	55518	D0150	D0855	17	Gillnet	K52-27MM	WHITING	1	1	0,150	0,150
1995	02-mar-95	SUND03	2703	55516	012388	012388	55518	D0150	D0855	17	Gillnet	K52-27MM	HERRING	26	26	4,400	4,400
1995	02-mar-95	SUND03	2705	55516	012388	012388	55518	D0150	D0855	17	Gillnet	K52-29MM	HERRING	16	16	2,600	2,600
1995	02-mar-95	SUND03	2701	55516	012388	012388	55518	D0150	D0855	17	Gillnet	K52-21MM	HERRING	3	3	0,300	0,300
1995	02-mar-95	SUND03	2704	55516	012388	012388	55518	D0150	D0855	17	Gillnet	K52-28MM	HERRING	38	38	6,900	6,900

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	02-mar-95	SUND03	2702	55516	012388	012388	55518	D0150	D0855	17	Gillnet	K52-26MM	HERRING	55	55	9,100	9,100
1995	02-mar-95	SUND03	2704	55516	012388	012388	55518	D0150	D0855	17	Gillnet	K52-28MM	COD	1	1	0,175	0,175
1995	02-mar-95	SUND03	2702	55516	012388	012388	55518	D0150	D0855	17	Gillnet	K52-26MM	COD	1	1	0,950	0,950
1995	03-mar-95	SUND03	2805	55540	012398	012396	55542	D1720	D1945	18	Gillnet	K52-28MM	HERRING	1	1	0,250	0,250
1995	03-mar-95	SUND03	2804	55540	012398	012396	55542	D1720	D1945	18	Gillnet	K52-27MM	HERRING	2	2	0,300	0,300
1995	03-mar-95	SUND03	2803	55540	012398	012396	55542	D1720	D1945	18	Gillnet	K52-26MM	HERRING	2	3	0,450	0,450
1995	03-mar-95	SUND03	2806	55540	012398	012396	55542	D1720	D1945	18	Gillnet	K52-29MM	HERRING	5	5	1,200	1,200
1995	03-mar-95	SUND03	2802	55540	012398	012396	55542	D1720	D1945	18	Gillnet	K52-21MM	HERRING	6	6	0,700	0,700
1995	03-mar-95	SUND03	2801	55540	012398	012396	55542	D1720	D1945	18	Gillnet	K52-18,5MM	HERRING	2	2	0,150	0,150
1995	03-mar-95	SUND03	3001	55540	012398	012396	55542	D1720	D1945	18	Gillnet		HERRING	1	1	0,200	0,200
1995	03-mar-95	SUND03	2901	55566	012358	012357	55568	D2020	D2135	15	Gillnet	K52-26MM	HERRING	2	2	0,300	0,300
1995	03-mar-95	SUND03	2902	55566	012358	012357	55568	D2020	D2135	15	Gillnet	K52-27MM	HERRING	1	1	0,350	0,350
1995	03-mar-95	SUND03	2005	55579	012349	012349	55581	D2035	D2220	14	Gillnet	K52-29MM	HERRING	2	2	0,500	0,500
1995	03-mar-95	SUND03	2004	55579	012349	012349	55581	D2035	D2220	14	Gillnet	K52-28MM	HERRING	2	2	0,500	0,500
1995	03-mar-95	SUND03	2001	55579	012349	012349	55581	D2035	D2220	14	Gillnet	K52-18,5MM	HERRING	1	1	0,150	0,150
1995	03-mar-95	SUND03	2002	55579	012349	012349	55581	D2035	D2220	14	Gillnet	K52-21MM	HERRING	4	4	0,800	0,800
1995	03-mar-95	SUND03	2003	55579	012349	012349	55581	D2035	D2220	14	Gillnet	K52-27MM	HERRING	2	2	0,450	0,450
1995	28-mar-95	SUND04	2105	55370	012561	012558	55371	D1745	D1845	14	Gillnet	K52-29MM	HERRING	2	2	0,400	0,400
1995	28-mar-95	SUND04	2103	55370	012561	012558	55371	D1745	D1845	14	Gillnet	K52-27MM	HERRING	30	30	6,200	6,200
1995	28-mar-95	SUND04	2104	55370	012561	012558	55371	D1745	D1845	14	Gillnet	K52-28MM	HERRING	5	5	1,100	1,100
1995	28-mar-95	SUND04	2102	55370	012561	012558	55371	D1745	D1845	14	Gillnet	K52-26MM	HERRING	4	4	0,600	0,600
1995	28-mar-95	SUND04	2101	55370	012561	012558	55371	D1745	D1845	14	Gillnet	K52-21MM	HERRING	1	1	0,100	0,100
1995	28-mar-95	SUND04	2205	55331	012515	012515	55330	D2055	D2130	8	Gillnet	K52-29MM	HERRING	8	8	1,300	1,300
1995	28-mar-95	SUND04	2203	55331	012512	012515	55330	D2055	D2130	8	Gillnet	K52-27MM	HERRING	2	2	0,350	0,350
1995	28-mar-95	SUND04	2204	55331	012515	012515	55330	D2055	D2130	8	Gillnet	K52-28MM	HERRING	5	5	0,700	0,700
1995	28-mar-95	SUND04	2201	55331	012512	012515	55330	D2055	D2130	8	Gillnet	K52-21MM	HERRING	1	1	0,150	0,150
1995	28-mar-95	SUND04	2202	55331	012512	012515	55330	D2055	D2130	8	Gillnet	K52-26MM	HERRING	3	3	0,350	0,350
1995	28-mar-95	SUND04	2205	55331	012515	012515	55330	D2055	D2130	8	Gillnet	K52-29MM	LUMPSUCKER	1	1	3,600	3,600
1995	29-mar-95	SUND04	2401	55410	012582	012578	55410	D0003	D0105	13	Gillnet	K52-29MM	HERRING	4	4	0,800	0,800
1995	29-mar-95	SUND04	2501	55429	012544	012541	55431	D0145	D0245	15	Gillnet	K52-26MM	HERRING	1	1	0,200	0,200
1995	29-mar-95	SUND04	2604	55468	012429	012429	55466	D1730	D1810	18	Gillnet	K52-27MM	WHITING	1	1	0,200	0,200
1995	29-mar-95	SUND04	2601	55468	012429	012429	55466	D1730	D1810	18	Gillnet	K52-18,5MM	WHITING	1	1	0,100	0,100

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	29-mar-95	SUND04	2607	55468	012429	012429	55466	D1730	D1810	18	Gillnet	K52-34MM	HERRING	1	1	0,200	0,200
1995	29-mar-95	SUND04	2602	55468	012429	012429	55466	D1730	D1810	18	Gillnet	K52-21MM	HERRING	15	15	1,900	1,900
1995	29-mar-95	SUND04	2603	55468	012429	012429	55466	D1730	D1810	18	Gillnet	K52-26MM	HERRING	105	105	17,200	17,200
1995	29-mar-95	SUND04	2601	55468	012429	012429	55466	D1730	D1810	18	Gillnet	K52-18,5MM	HERRING	2	2	0,300	0,300
1995	29-mar-95	SUND04	2606	55468	012429	012429	55466	D1730	D1810	18	Gillnet	K52-29MM	HERRING	24	24	5,000	5,000
1995	29-mar-95	SUND04	2605	55468	012429	012429	55466	D1730	D1810	18	Gillnet	K52-28MM	HERRING	16	16	3,100	3,100
1995	29-mar-95	SUND04	2604	55468	012429	012429	55466	D1730	D1810	18	Gillnet	K52-27MM	HERRING	25	25	3,800	3,800
1995	29-mar-95	SUND04	2704	55505	012464	012461	55507	D2005	D2105	10	Gillnet	K52-29MM	HERRING	2	2	0,400	0,400
1995	29-mar-95	SUND04	2702	55505	012464	012461	55507	D2005	D2105	10	Gillnet	K52-27MM	HERRING	2	2	0,400	0,400
1995	29-mar-95	SUND04	2701	55505	012464	012461	55507	D2005	D2105	10	Gillnet	K52-26MM	HERRING	3	3	0,600	0,600
1995	29-mar-95	SUND04	2703	55505	012464	012461	55507	D2005	D2105	10	Gillnet	K52-28MM	HERRING	1	1	0,200	0,200
1995	29-mar-95	SUND04	2705	55505	012464	012461	55507	D2005	D2105	10	Gillnet	K52-55MM	COD	1	1	1,100	1,100
1995	29-mar-95	SUND04	2802	55557	012467	012467	55559	D2210	D2310	12	Gillnet	K52-27MM	HERRING	1	1	0,200	0,200
1995	29-mar-95	SUND04	2801	55557	012467	012467	55559	D2210	D2310	12	Gillnet	K52-21MM	HERRING	6	6	1,800	1,800
1995	29-mar-95	SUND04	2301	55393	012577	012575	55392	D2255	D2325	14	Gillnet	K52-21MM	HERRING	3	3	0,600	0,600
1995	29-mar-95	SUND04	2304	55393	012577	012575	55392	D2255	D2325	14	Gillnet	K52-34MM	HERRING	1	1	0,250	0,250
1995	29-mar-95	SUND04	2302	55393	012577	012575	55392	D2255	D2325	14	Gillnet	K52-26MM	HERRING	7	7	1,000	1,000
1995	29-mar-95	SUND04	2303	55393	012577	012575	55392	D2255	D2325	14	Gillnet	K52-29MM	HERRING	1	1	0,200	0,200
1995	30-mar-95	SUND04	2901	55594	012436	012434	55595	D0025	D0225	12	Gillnet	K52-18,5MM	WHITING	1	1	0,100	0,100
1995	30-mar-95	SUND04	2908	55594	012436	012434	55595	D0025	D0225	12	Gillnet	K52-55MM	DAB	1	1	0,100	0,100
1995	30-mar-95	SUND04	2902	55594	012436	012434	55595	D0025	D0225	12	Gillnet	K52-21MM	HERRING	17	17	1,900	1,900
1995	30-mar-95	SUND04	2903	55594	012436	012434	55595	D0025	D0225	12	Gillnet	K52-26MM	HERRING	10	10	2,000	2,000
1995	30-mar-95	SUND04	2901	55594	012436	012434	55595	D0025	D0225	12	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100
1995	30-mar-95	SUND04	2904	55594	012436	012434	55595	D0025	D0225	12	Gillnet	K52-27MM	HERRING	1	1	0,250	0,250
1995	30-mar-95	SUND04	2905	55594	012436	012434	55595	D0025	D0225	12	Gillnet	K52-28MM	HERRING	1	1	0,200	0,200
1995	30-mar-95	SUND04	2907	55594	012436	012434	55595	D0025	D0225	12	Gillnet	K52-34MM	HERRING	1	1	0,300	0,300
1995	30-mar-95	SUND04	2906	55594	012436	012434	55595	D0025	D0225	12	Gillnet	K52-29MM	HERRING	1	1	0,200	0,200
1995	30-mar-95	SUND04	3003	56003	012364	012366	56005	D1800	D1900	17	Gillnet	K52-29MM	HERRING	2	2	0,400	0,400
1995	30-mar-95	SUND04	3002	56003	012364	012366	56005	D1800	D1900	17	Gillnet	K52-27MM	HERRING	1	1	0,200	0,200
1995	30-mar-95	SUND04	3001	56003	012364	012366	56005	D1800	D1900	17	Gillnet	K52-21MM	HERRING	5	5	0,700	0,700
1995	30-mar-95	SUND04	3102	55525	012346	012347	55527	D2045	D2245	10	Gillnet	K52-26MM	HERRING	1	1	0,200	0,200
1995	30-mar-95	SUND04	3105	55525	012346	012347	55527	D2045	D2245	10	Gillnet	K52-29MM	HERRING	3	3	0,500	0,500

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	30-mar-95	SUND04	3104	55525	012346	012347	55527	D2045	D2245	10	Gillnet	K52-28MM	HERRING	1	1	0,200	0,200
1995	30-mar-95	SUND04	3101	55525	012346	012347	55527	D2045	D2245	10	Gillnet	K52-21MM	HERRING	1	1	0,200	0,200
1995	30-mar-95	SUND04	3103	55525	012346	012347	55527	D2045	D2245	10	Gillnet	K52-27MM	HERRING	4	4	0,600	0,600
1995	30-mar-95	SUND04	3104	55525	012346	012347	55527	D2045	D2245	10	Gillnet	K52-28MM	COD	1	1	0,150	0,150
1995	30-mar-95	SUND04	3105	55525	012346	012347	55527	D2045	D2245	10	Gillnet	K52-29MM	COD	2	2	0,300	0,300
1995	31-mar-95	SUND04	3604	55569	012344	012343	55571	D1730	D2010	8	Gillnet	K52-27MM	HERRING	8	8	1,500	1,500
1995	31-mar-95	SUND04	3606	55569	012344	012343	55571	D1730	D2010	8	Gillnet	K52-29MM	HERRING	27	27	4,800	4,800
1995	31-mar-95	SUND04	3605	55569	012344	012343	55571	D1730	D2010	8	Gillnet	K52-28MM	HERRING	17	17	2,750	2,750
1995	31-mar-95	SUND04	3603	55569	012344	012343	55571	D1730	D2010	8	Gillnet	K52-26MM	HERRING	4	4	0,700	0,700
1995	31-mar-95	SUND04	3602	55569	012344	012343	55571	D1730	D2010	8	Gillnet	K52-21MM	HERRING	5	5	0,450	0,450
1995	31-mar-95	SUND04	4101	55569	012344	012343	55571	D1730	D2010	8	Gillnet		HERRING	6	6	1,250	1,250
1995	31-mar-95	SUND04	3602	55569	012344	012343	55571	D1730	D2010	8	Gillnet	K52-21MM	COD	3	3	0,200	0,200
1995	31-mar-95	SUND04	3601	55569	012344	012343	55571	D1730	D2010	8	Gillnet	K52-18,5MM	COD	2	2	0,200	0,200
1995	31-mar-95	SUND04	3706	55517	012353	012355	55519	D2215	D0025	11	Gillnet	K52-29MM	HERRING	1	1	0,200	0,200
1995	31-mar-95	SUND04	3701	55517	012353	012355	55519	D2215	D0025	11	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100
1995	31-mar-95	SUND04	3705	55517	012353	012355	55519	D2215	D0025	11	Gillnet	K52-28MM	HERRING	6	6	1,100	1,100
1995	31-mar-95	SUND04	3704	55517	012353	012355	55519	D2215	D0025	11	Gillnet	K52-27MM	HERRING	5	5	0,800	0,800
1995	31-mar-95	SUND04	3703	55517	012353	012355	55519	D2215	D0025	11	Gillnet	K52-26MM	HERRING	14	14	2,200	2,200
1995	31-mar-95	SUND04	3702	55517	012353	012355	55519	D2215	D0025	11	Gillnet	K52-21MM	HERRING	2	2	0,350	0,350
1995	31-mar-95	SUND04	3707	55517	012353	012355	55519	D2215	D0025	11	Gillnet	K52-55MM	COD	1	1	0,500	0,500
1995	01-apr-95	SUND04	3802	55482	012370	012373	55484	D0130	D0230	8	Gillnet	K52-55MM	DAB	1	1	0,100	0,100
1995	01-apr-95	SUND04	3801	55482	012370	012373	55484	D0130	D0230	8	Gillnet	K52-29MM	COD	1	1	0,100	0,100
1995	01-apr-95	SUND04	3903	55447	012366	012369	55445	D1910	D2010	6	Gillnet	K52-27MM	HERRING	2	2	0,300	0,300
1995	01-apr-95	SUND04	3904	55447	012366	012369	55445	D1910	D2010	6	Gillnet	K52-28MM	HERRING	1	1	0,150	0,150
1995	01-apr-95	SUND04	3905	55447	012366	012369	55445	D1910	D2010	6	Gillnet	K52-29MM	HERRING	3	3	0,500	0,500
1995	01-apr-95	SUND04	3902	55447	012366	012369	55445	D1910	D2010	6	Gillnet	K52-26MM	HERRING	4	4	0,700	0,700
1995	01-apr-95	SUND04	3901	55447	012366	012369	55445	D1910	D2010	6	Gillnet	K52-21MM	HERRING	1	1	0,100	0,100
1995	01-apr-95	SUND04	3905	55447	012366	012369	55445	D1910	D2010	6	Gillnet	K52-29MM	COD	7	7	1,100	1,100
1995	01-apr-95	SUND04	3903	55447	012366	012369	55445	D1910	D2010	6	Gillnet	K52-27MM	COD	4	4	0,500	0,500
1995	01-apr-95	SUND04	3906	55447	012366	012369	55445	D1910	D2010	6	Gillnet	K52-34MM	COD	1	1	0,250	0,250
1995	01-apr-95	SUND04	3904	55447	012366	012369	55445	D1910	D2010	6	Gillnet	K52-28MM	COD	8	8	1,200	1,200
1995	01-apr-95	SUND04	4003	55466	012368	012370	55465	D2115	D2215	7	Gillnet	K52-28MM	HERRING	5	5	1,000	1,000

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	01-apr-95	SUND04	4001	55466	012368	012370	55465	D2115	D2215	7	Gillnet	K52-26MM	HERRING	2	2	0,400	0,400
1995	01-apr-95	SUND04	4002	55466	012368	012370	55465	D2115	D2215	7	Gillnet	K52-27MM	HERRING	1	1	0,150	0,150
1995	01-apr-95	SUND04	4001	55466	012368	012370	55465	D2115	D2215	7	Gillnet	K52-26MM	COD	1	1	0,150	0,150
1995	10-okt-95	SUND09	7106	55333	012412	012412	55335	G1707	G1809	9	Gillnet	K52-29MM	GARFISH	4	4	2,400	2,400
1995	10-okt-95	SUND09	7101	55333	012412	012412	55335	G1707	G1809	9	Gillnet	K52-18,5MM	GARFISH	1	1	0,400	0,400
1995	10-okt-95	SUND09	7102	55333	012412	012412	55335	G1707	G1809	9	Gillnet	K52-21MM	GARFISH	18	17	4,100	4,100
1995	10-okt-95	SUND09	7107	55333	012412	012412	55335	G1707	G1809	9	Gillnet	K52-55MM	GARFISH	1	1	0,600	0,600
1995	10-okt-95	SUND09	7104	55333	012412	012412	55335	G1707	G1809	9	Gillnet	K52-27MM	HERRING	41	41	7,400	7,400
1995	10-okt-95	SUND09	7106	55333	012412	012412	55335	G1707	G1809	9	Gillnet	K52-29MM	HERRING	61	61	11,000	11,000
1995	10-okt-95	SUND09	7107	55333	012412	012412	55335	G1707	G1809	9	Gillnet	K52-55MM	HERRING	1	1	0,300	0,300
1995	10-okt-95	SUND09	7101	55333	012412	012412	55335	G1707	G1809	9	Gillnet	K52-18,5MM	HERRING	1	1	0,125	0,125
1995	10-okt-95	SUND09	7103	55333	012412	012412	55335	G1707	G1809	9	Gillnet	K52-26MM	HERRING	31	31	5,200	5,200
1995	10-okt-95	SUND09	7102	55333	012412	012412	55335	G1707	G1809	9	Gillnet	K52-21MM	HERRING	17	17	2,100	2,100
1995	10-okt-95	SUND09	7105	55333	012412	012412	55335	G1707	G1809	9	Gillnet	K52-28MM	HERRING	29	29	5,300	5,300
1995	10-okt-95	SUND09	7113	55334	012504	012508	55340	G1945	G2049	8	Gillnet	K52-26MM	GARFISH	2	2	1,200	1,200
1995	10-okt-95	SUND09	7115	55334	012504	012508	55340	G1945	G2049	8	Gillnet	K52-29MM	GARFISH	3	3	1,600	1,600
1995	10-okt-95	SUND09	7112	55334	012504	012508	55340	G1945	G2049	8	Gillnet	K52-21MM	GARFISH	1	1	0,275	0,275
1995	10-okt-95	SUND09	7113	55334	012504	012508	55340	G1945	G2049	8	Gillnet	K52-26MM	WHITING	1	1	0,100	0,100
1995	10-okt-95	SUND09	7111	55334	012504	012508	55340	G1945	G2049	8	Gillnet	K52-18,5MM	HERRING	3	3	0,250	0,250
1995	10-okt-95	SUND09	7113	55334	012504	012508	55340	G1945	G2049	8	Gillnet	K52-26MM	HERRING	6	6	1,100	1,100
1995	10-okt-95	SUND09	7114	55334	012504	012508	55340	G1945	G2049	8	Gillnet	K52-28MM	HERRING	4	4	0,600	0,600
1995	10-okt-95	SUND09	7112	55334	012504	012508	55340	G1945	G2049	8	Gillnet	K52-21MM	HERRING	19	19	1,800	1,800
1995	10-okt-95	SUND09	7124	55360	012504	012502	55359	G2130	G2235	7	Gillnet	K52-27MM	GARFISH	1	1	0,700	0,700
1995	10-okt-95	SUND09	7125	55360	012504	012502	55359	G2130	G2235	7	Gillnet	K52-28MM	GARFISH	2	2	1,300	1,300
1995	10-okt-95	SUND09	7126	55360	012504	012502	55359	G2130	G2235	7	Gillnet	K52-29MM	GARFISH	2	2	1,600	1,600
1995	10-okt-95	SUND09	7124	55360	012504	012502	55359	G2130	G2235	7	Gillnet	K52-27MM	HERRING	10	10	1,800	1,800
1995	10-okt-95	SUND09	7122	55360	012504	012502	55359	G2130	G2235	7	Gillnet	K52-21MM	HERRING	10	10	1,000	1,000
1995	10-okt-95	SUND09	7125	55360	012504	012502	55359	G2130	G2235	7	Gillnet	K52-28MM	HERRING	21	21	4,800	4,800
1995	10-okt-95	SUND09	7121	55360	012504	012502	55359	G2130	G2235	7	Gillnet	K52-18,5MM	HERRING	3	3	0,200	0,200
1995	10-okt-95	SUND09	7126	55360	012504	012502	55359	G2130	G2235	7	Gillnet	K52-29MM	HERRING	23	23	4,500	4,500
1995	10-okt-95	SUND09	7123	55360	012504	012502	55359	G2130	G2235	7	Gillnet	K52-26MM	HERRING	12	12	1,800	1,800
1995	10-okt-95	SUND09	7321	56000	012300	013000	56025	G2200	G2300	10	Gillnet	HAVKAT	HERRING	48	48	8,200	8,200

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	10-okt-95	SUND09	7134	55367	012552	012556	55368	G2340	G0010	12	Gillnet	K52-27MM	HERRING	21	21	4,200	4,200
1995	10-okt-95	SUND09	7137	55367	012552	012556	55368	G2340	G0010	12	Gillnet	K52-34MM	HERRING	5	5	1,600	1,600
1995	10-okt-95	SUND09	7136	55367	012552	012556	55368	G2340	G0010	12	Gillnet	K52-29MM	HERRING	24	24	4,500	4,500
1995	10-okt-95	SUND09	7132	55367	012552	012556	55368	G2340	G0010	12	Gillnet	K52-21MM	HERRING	12	12	1,000	1,000
1995	10-okt-95	SUND09	7131	55367	012552	012556	55368	G2340	G0010	12	Gillnet	K52-18,5MM	HERRING	2	2	0,150	0,150
1995	10-okt-95	SUND09	7133	55367	012552	012556	55368	G2340	G0010	12	Gillnet	K52-26MM	HERRING	6	6	0,900	0,900
1995	10-okt-95	SUND09	7135	55367	012552	012556	55368	G2340	G0010	12	Gillnet	K52-28MM	HERRING	12	12	2,600	2,600
1995	11-okt-95	SUND09	7147	55392	012575	012578	55391	G0150	G0305	12	Gillnet	K52-34MM	HERRING	4	4	1,200	1,200
1995	11-okt-95	SUND09	7145	55392	012575	012578	55391	G0150	G0305	12	Gillnet	K52-28MM	HERRING	27	27	5,100	5,100
1995	11-okt-95	SUND09	7142	55392	012575	012578	55391	G0150	G0305	12	Gillnet	K52-21MM	HERRING	12	12	1,300	1,300
1995	11-okt-95	SUND09	7146	55392	012575	012578	55391	G0150	G0305	12	Gillnet	K52-29MM	HERRING	44	44	9,000	9,000
1995	11-okt-95	SUND09	7144	55392	012575	012578	55391	G0150	G0305	12	Gillnet	K52-27MM	HERRING	10	10	1,900	1,900
1995	11-okt-95	SUND09	7141	55392	012575	012578	55391	G0150	G0305	12	Gillnet	K52-18,5MM	HERRING	1	1	0,125	0,125
1995	11-okt-95	SUND09	7143	55392	012575	012578	55391	G0150	G0305	12	Gillnet	K52-26MM	HERRING	14	14	3,200	3,200
1995	11-okt-95	SUND09	7152	55396	012499	012502	55396	G1751	G2011	7	Gillnet	K52-21MM	GARFISH	2	2	0,100	0,100
1995	11-okt-95	SUND09	7155	55396	012499	012502	55396	G1751	G2011	7	Gillnet	K52-28MM	HERRING	54	54	10,800	10,800
1995	11-okt-95	SUND09	7151	55396	012499	012502	55396	G1751	G2011	7	Gillnet	K52-18,5MM	HERRING	22	22	1,900	1,900
1995	11-okt-95	SUND09	7156	55396	012499	012502	55396	G1751	G2011	7	Gillnet	K52-29MM	HERRING	42	42	8,000	8,000
1995	11-okt-95	SUND09	7154	55396	012499	012502	55396	G1751	G2011	7	Gillnet	K52-27MM	HERRING	36	36	6,500	6,500
1995	11-okt-95	SUND09	7153	55396	012499	012502	55396	G1751	G2011	7	Gillnet	K52-26MM	HERRING	36	36	5,900	5,900
1995	11-okt-95	SUND09	7152	55396	012499	012502	55396	G1751	G2011	7	Gillnet	K52-21MM	HERRING	52	52	5,400	5,400
1995	11-okt-95	SUND09	7157	55396	012499	012502	55396	G1751	G2011	7	Gillnet	K52-34MM	HERRING	9	9	1,900	1,900
1995	11-okt-95	SUND09	7153	55396	012499	012502	55396	G1751	G2011	7	Gillnet	K52-26MM	COD	1	1	0,300	0,300
1995	11-okt-95	SUND09	7156	55396	012499	012502	55396	G1751	G2011	7	Gillnet	K52-29MM	COD	1	1	1,300	1,300
1995	11-okt-95	SUND09	7151	55396	012499	012502	55396	G1751	G2011	7	Gillnet	K52-18,5MM	COD	1	1	0,200	0,200
1995	11-okt-95	SUND09	7162	55415	012564	012564	55415	G2140	G2220	15	Gillnet	K52-28MM	HERRING	14	14	2,900	2,900
1995	11-okt-95	SUND09	7164	55415	012564	012564	55415	G2140	G2220	15	Gillnet	K52-34MM	HERRING	3	3	0,800	0,800
1995	11-okt-95	SUND09	7163	55415	012564	012564	55415	G2140	G2220	15	Gillnet	K52-29MM	HERRING	22	22	4,700	4,700
1995	11-okt-95	SUND09	7161	55415	012564	012564	55415	G2140	G2220	15	Gillnet	K52-27MM	HERRING	2	2	0,400	0,400
1995	11-okt-95	SUND09	7172	55433	012543	012548	55430	G2300	G0030	15	Gillnet	K52-21MM	WHITING	1	1	0,150	0,150
1995	11-okt-95	SUND09	7176	55433	012543	012548	55430	G2300	G0030	15	Gillnet	K52-29MM	MACKEREL	2	2	0,500	0,500
1995	11-okt-95	SUND09	7175	55433	012543	012548	55430	G2300	G0030	15	Gillnet	K52-28MM	HERRING	12	12	2,300	2,300

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	11-okt-95	SUND09	7171	55433	012543	012548	55430	G2300	G0030	15	Gillnet	K52-18,5MM	HERRING	3	3	0,250	0,250
1995	11-okt-95	SUND09	7174	55433	012543	012548	55430	G2300	G0030	15	Gillnet	K52-27MM	HERRING	7	7	1,200	1,200
1995	11-okt-95	SUND09	7172	55433	012543	012548	55430	G2300	G0030	15	Gillnet	K52-21MM	HERRING	90	90	8,500	8,500
1995	11-okt-95	SUND09	7173	55433	012543	012548	55430	G2300	G0030	15	Gillnet	K52-26MM	HERRING	8	8	1,300	1,300
1995	11-okt-95	SUND09	7176	55433	012543	012548	55430	G2300	G0030	15	Gillnet	K52-29MM	HERRING	13	13	1,900	1,900
1995	12-okt-95	SUND09	7182	55447	012460	012460	55447	G0200	G0325	12	Gillnet	K52-28MM	HERRING	3	3	0,600	0,600
1995	12-okt-95	SUND09	7181	55447	012460	012460	55447	G0200	G0325	12	Gillnet	K52-26MM	HERRING	1	1	0,075	0,075
1995	12-okt-95	SUND09	7184	55447	012460	012460	55447	G0200	G0325	12	Gillnet	K52-34MM	HERRING	1	1	0,250	0,250
1995	12-okt-95	SUND09	7183	55447	012460	012460	55447	G0200	G0325	12	Gillnet	K52-29MM	HERRING	2	2	0,400	0,400
1995	12-okt-95	SUND09	7193	55402	012390	012392	55404	G1700	G1715	7	Gillnet	K52-26MM	HERRING	34	34	5,000	5,000
1995	12-okt-95	SUND09	7194	55402	012390	012392	55404	G1700	G1715	7	Gillnet	K52-27MM	HERRING	23	23	4,700	4,700
1995	12-okt-95	SUND09	7192	55402	012390	012392	55404	G1700	G1715	7	Gillnet	K52-21MM	HERRING	12	12	1,200	1,200
1995	12-okt-95	SUND09	7197	55402	012390	012392	55404	G1700	G1715	7	Gillnet	K52-34MM	HERRING	1	1	0,195	0,195
1995	12-okt-95	SUND09	7195	55402	012390	012392	55404	G1700	G1715	7	Gillnet	K52-28MM	HERRING	20	20	3,600	3,600
1995	12-okt-95	SUND09	7196	55402	012390	012392	55404	G1700	G1715	7	Gillnet	K52-29MM	HERRING	18	18	3,200	3,200
1995	12-okt-95	SUND09	7191	55402	012390	012392	55404	G1700	G1715	7	Gillnet	K52-18,5MM	HERRING	3	3	0,350	0,350
1995	12-okt-95	SUND09	7197	55402	012390	012392	55404	G1700	G1715	7	Gillnet	K52-34MM	FLOUNDER	1	1	1,100	1,100
1995	12-okt-95	SUND09	7204	55469	012531	012528	55470	G2000	G2145	15	Gillnet	K52-29MM	HERRING	16	16	3,600	3,600
1995	12-okt-95	SUND09	7202	55469	012531	012528	55470	G2000	G2145	15	Gillnet	K52-26MM	HERRING	73	73	14,000	14,000
1995	12-okt-95	SUND09	7201	55469	012531	012528	55470	G2000	G2145	15	Gillnet	K52-21MM	HERRING	2	2	0,180	0,180
1995	12-okt-95	SUND09	7203	55469	012531	012528	55470	G2000	G2145	15	Gillnet	K52-28MM	HERRING	20	20	4,400	4,400
1995	12-okt-95	SUND09	7211	55485	012512	012512	55485	G2305	G2325	15	Gillnet	K52-29MM	HERRING	1	1	0,250	0,250
1995	12-okt-95	SUND09	7212	55485	012512	012512	55485	G2305	G2325	15	Gillnet	K52-34MM	HERRING	1	1	0,300	0,300
1995	13-okt-95	SUND09	7228	55515	012353	012355	55518	G0115	G0315	12	Gillnet	K52-55MM	DAB	1	1	0,150	0,150
1995	13-okt-95	SUND09	7222	55515	012353	012355	55518	G0115	G0315	12	Gillnet	K52-21MM	HERRING	74	74	8,200	8,200
1995	13-okt-95	SUND09	7225	55515	012353	012355	55518	G0115	G0315	12	Gillnet	K52-28MM	HERRING	36	36	7,700	7,700
1995	13-okt-95	SUND09	7224	55515	012353	012355	55518	G0115	G0315	12	Gillnet	K52-27MM	HERRING	20	20	3,900	3,900
1995	13-okt-95	SUND09	7227	55515	012353	012355	55518	G0115	G0315	12	Gillnet	K52-34MM	HERRING	5	5	1,400	1,400
1995	13-okt-95	SUND09	7226	55515	012353	012355	55518	G0115	G0315	12	Gillnet	K52-29MM	HERRING	37	37	7,700	7,700
1995	13-okt-95	SUND09	7223	55515	012353	012355	55518	G0115	G0315	12	Gillnet	K52-26MM	HERRING	34	34	6,000	6,000
1995	13-okt-95	SUND09	7221	55515	012353	012355	55518	G0115	G0315	12	Gillnet	K52-18,5MM	HERRING	38	38	3,700	3,700
1995	13-okt-95	SUND09	7241	55590	012436	012433	55592	G1730	G1830	15	Gillnet	K52-18,5MM	HERRING	1	1	0,125	0,125

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	13-okt-95	SUND09	7242	55590	012436	012433	55592	G1730	G1830	15	Gillnet	K52-21MM	HERRING	21	21	2,300	2,300
1995	13-okt-95	SUND09	7243	55590	012436	012433	55592	G1730	G1830	15	Gillnet	K52-26MM	HERRING	5	5	1,200	1,200
1995	13-okt-95	SUND09	7246	55590	012436	012433	55592	G1730	G1830	15	Gillnet	K52-34MM	HERRING	3	3	1,000	1,000
1995	13-okt-95	SUND09	7244	55590	012436	012433	55592	G1730	G1830	15	Gillnet	K52-27MM	HERRING	2	2	0,350	0,350
1995	13-okt-95	SUND09	7245	55590	012436	012433	55592	G1730	G1830	15	Gillnet	K52-29MM	HERRING	9	9	2,000	2,000
1995	13-okt-95	SUND09	7247	55590	012436	012433	55592	G1730	G1830	15	Gillnet	K52-55MM	HERRING	3	3	1,000	1,000
1995	13-okt-95	SUND09	7247	55590	012436	012433	55592	G1730	G1830	15	Gillnet	K52-55MM	COD	1	1	0,900	0,900
1995	13-okt-95	SUND09	7255	55557	012462	012460	55558	G1930	G2135	12	Gillnet	K52-28MM	HERRING	24	24	5,000	5,000
1995	13-okt-95	SUND09	7256	55557	012462	012460	55558	G1930	G2135	12	Gillnet	K52-29MM	HERRING	27	27	5,900	5,900
1995	13-okt-95	SUND09	7254	55557	012462	012460	55558	G1930	G2135	12	Gillnet	K52-27MM	HERRING	18	18	4,900	4,900
1995	13-okt-95	SUND09	7257	55557	012462	012460	55558	G1930	G2135	12	Gillnet	K52-34MM	HERRING	7	7	2,000	2,000
1995	13-okt-95	SUND09	7252	55557	012462	012460	55558	G1930	G2135	12	Gillnet	K52-21MM	HERRING	4	4	0,300	0,300
1995	13-okt-95	SUND09	7253	55557	012462	012460	55558	G1930	G2135	12	Gillnet	K52-26MM	HERRING	23	23	4,700	4,700
1995	13-okt-95	SUND09	7251	55557	012462	012460	55558	G1930	G2135	12	Gillnet	K52-18,5MM	HERRING	3	3	0,500	0,500
1995	13-okt-95	SUND09	7263	55538	012471	012473	55537	G2240	G2335	12	Gillnet	K52-26MM	WHITING	1	1	0,100	0,100
1995	13-okt-95	SUND09	7266	55538	012471	012473	55537	G2240	G2335	12	Gillnet	K52-29MM	HERRING	19	19	4,100	4,100
1995	13-okt-95	SUND09	7265	55538	012471	012473	55537	G2240	G2335	12	Gillnet	K52-28MM	HERRING	45	45	9,200	9,200
1995	13-okt-95	SUND09	7262	55538	012471	012473	55537	G2240	G2335	12	Gillnet	K52-21MM	HERRING	40	40	5,000	5,000
1995	13-okt-95	SUND09	7263	55538	012471	012473	55537	G2240	G2335	12	Gillnet	K52-26MM	HERRING	23	23	4,600	4,600
1995	13-okt-95	SUND09	7264	55538	012471	012473	55537	G2240	G2335	12	Gillnet	K52-27MM	HERRING	22	22	5,000	5,000
1995	13-okt-95	SUND09	7261	55538	012471	012473	55537	G2240	G2335	12	Gillnet	K52-18,5MM	HERRING	14	14	1,400	1,400
1995	13-okt-95	SUND09	7267	55538	012471	012473	55537	G2240	G2335	12	Gillnet	K52-34MM	HERRING	2	2	0,600	0,600
1995	14-okt-95	SUND09	7277	55504	012464	012464	55505	G0105	G0250	8	Gillnet	K52-34MM	HERRING	37	37	10,000	10,000
1995	14-okt-95	SUND09	7273	55504	012464	012464	55505	G0105	G0250	8	Gillnet	K52-26MM	HERRING	27	27	4,700	4,700
1995	14-okt-95	SUND09	7274	55504	012464	012464	55505	G0105	G0250	8	Gillnet	K52-27MM	HERRING	40	40	8,700	8,700
1995	14-okt-95	SUND09	7276	55504	012464	012464	55505	G0105	G0250	8	Gillnet	K52-29MM	HERRING	64	64	13,000	13,000
1995	14-okt-95	SUND09	7272	55504	012464	012464	55505	G0105	G0250	8	Gillnet	K52-21MM	HERRING	13	13	1,400	1,400
1995	14-okt-95	SUND09	7275	55504	012464	012464	55505	G0105	G0250	8	Gillnet	K52-28MM	HERRING	57	57	11,000	11,000
1995	14-okt-95	SUND09	7271	55504	012464	012464	55505	G0105	G0250	8	Gillnet	K52-18,5MM	HERRING	1	1	0,125	0,125
1995	14-okt-95	SUND09	7275	55504	012464	012464	55505	G0105	G0250	8	Gillnet	K52-28MM	COD	1	1	2,100	2,100
1995	14-okt-95	SUND09	7276	55504	012464	012464	55505	G0105	G0250	8	Gillnet	K52-29MM	COD	1	1	0,150	0,150
1995	14-okt-95	SUND09	7278	55504	012464	012464	55505	G0105	G0250	8	Gillnet	K52-55MM	COD	1	1	3,100	3,100

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	14-okt-95	SUND09	7283	55575	012347	012350	55578	G1730	G1930	11	Gillnet	K52-26MM	WHITING	1	1	0,300	0,300
1995	14-okt-95	SUND09	7284	55575	012347	012350	55578	G1730	G1930	11	Gillnet	K52-27MM	HERRING	15	15	2,800	2,800
1995	14-okt-95	SUND09	7282	55575	012347	012350	55578	G1730	G1930	11	Gillnet	K52-21MM	HERRING	67	67	7,300	7,300
1995	14-okt-95	SUND09	7281	55575	012347	012350	55578	G1730	G1930	11	Gillnet	K52-18,5MM	HERRING	21	21	1,900	1,900
1995	14-okt-95	SUND09	7283	55575	012347	012350	55578	G1730	G1930	11	Gillnet	K52-26MM	HERRING	35	35	5,200	5,200
1995	14-okt-95	SUND09	7285	55575	012347	012350	55578	G1730	G1930	11	Gillnet	K52-28MM	HERRING	6	6	1,300	1,300
1995	14-okt-95	SUND09	7286	55575	012347	012350	55578	G1730	G1930	11	Gillnet	K52-29MM	HERRING	6	6	1,300	1,300
1995	14-okt-95	SUND09	7294	55538	012345	012348	55539	G2030	G2215	10	Gillnet	K52-29MM	HERRING	4	4	1,100	1,100
1995	14-okt-95	SUND09	7292	55538	012345	012348	55539	G2030	G2215	10	Gillnet	K52-27MM	HERRING	1	1	0,250	0,250
1995	14-okt-95	SUND09	7291	55538	012345	012348	55539	G2030	G2215	10	Gillnet	K52-26MM	HERRING	1	1	0,225	0,225
1995	14-okt-95	SUND09	7293	55538	012345	012348	55539	G2030	G2215	10	Gillnet	K52-28MM	HERRING	3	3	0,500	0,500
1995	14-okt-95	SUND09	7295	55538	012345	012348	55539	G2030	G2215	10	Gillnet	K52-34MM	HERRING	1	1	0,300	0,300
1995	14-okt-95	SUND09	7306	55496	012372	012375	55497	G2305	G0035	11	Gillnet	K52-29MM	HERRING	56	56	11,000	11,000
1995	14-okt-95	SUND09	7301	55496	012372	012375	55497	G2305	G0035	11	Gillnet	K52-18,5MM	HERRING	3	3	0,450	0,450
1995	14-okt-95	SUND09	7302	55496	012372	012375	55497	G2305	G0035	11	Gillnet	K52-21MM	HERRING	36	36	4,600	4,600
1995	14-okt-95	SUND09	7305	55496	012372	012375	55497	G2305	G0035	11	Gillnet	K52-28MM	HERRING	33	33	6,700	6,700
1995	14-okt-95	SUND09	7304	55496	012372	012375	55497	G2305	G0035	11	Gillnet	K52-27MM	HERRING	26	26	6,700	6,700
1995	14-okt-95	SUND09	7307	55496	012372	012375	55497	G2305	G0035	11	Gillnet	K52-34MM	HERRING	6	6	1,800	1,800
1995	14-okt-95	SUND09	7303	55496	012372	012375	55497	G2305	G0035	11	Gillnet	K52-26MM	HERRING	34	34	6,700	6,700
1995	15-okt-95	SUND09	7311	55469	012373	012376	55470	G0120	G0225	6	Gillnet	K52-18,5MM	WHITING	1	1	0,075	0,075
1995	15-okt-95	SUND09	7313	55469	012373	012376	55470	G0120	G0225	6	Gillnet	K52-26MM	HERRING	4	4	0,900	0,900
1995	15-okt-95	SUND09	7315	55469	012373	012376	55470	G0120	G0225	6	Gillnet	K52-34MM	HERRING	2	2	0,500	0,500
1995	15-okt-95	SUND09	7311	55469	012373	012376	55470	G0120	G0225	6	Gillnet	K52-18,5MM	HERRING	5	5	0,600	0,600
1995	15-okt-95	SUND09	7312	55469	012373	012376	55470	G0120	G0225	6	Gillnet	K52-21MM	HERRING	17	17	1,800	1,800
1995	15-okt-95	SUND09	7314	55469	012373	012376	55470	G0120	G0225	6	Gillnet	K52-27MM	HERRING	1	1	0,200	0,200
1995	17-okt-95	SOLE10	44	56069	012285	56058	012318	G0140	G0212		Trawl		SPRAT	171	888	2,600	13,500
1995	17-okt-95	SOLE10	44	56069	012285	56058	012318	G0140	G0212		Trawl		WHITING	73	137	5,800	10,875
1995	17-okt-95	SOLE10	44	56069	012285	56058	012318	G0140	G0212		Trawl		DAB	0	0	0,563	0,563
1995	17-okt-95	SOLE10	44	56069	012285	56058	012318	G0140	G0212		Trawl		HERRING	458	4936	19,800	213,375
1995	17-okt-95	SOLE10	44	56069	012285	56058	012318	G0140	G0212		Trawl		COD	5	9	4,400	8,250
1995	17-okt-95	SOLE10	43	56145	012265	56123	012264	G0809	G0839		Trawl		SPRAT	83	498	1,300	7,800
1995	17-okt-95	SOLE10	43	56145	012265	56123	012264	G0809	G0839		Trawl		H. MACKEREL	0	0	0,200	0,200

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	17-okt-95	SOLE10	43	56145	012265	56123	012264	G0809	G0839		Trawl		WHITING	62	124	3,400	6,800
1995	17-okt-95	SOLE10	43	56145	012265	56123	012264	G0809	G0839		Trawl		HERRING	200	3473	8,200	142,400
1995	17-okt-95	SOLE10	45	55575	012420	55556	012433	G1033	G1103		Trawl		SPRAT	187	374	2,900	5,800
1995	17-okt-95	SOLE10	45	55575	012420	55556	012433	G1033	G1103		Trawl		WHITING	103	206	47,600	95,200
1995	17-okt-95	SOLE10	45	55575	012420	55556	012433	G1033	G1103		Trawl		HERRING	4119	8238	743,600	1487,200
1995	17-okt-95	SOLE10	45	55575	012420	55556	012433	G1033	G1103		Trawl		COD	52	104	105,800	211,600
1995	18-okt-95	SOLE10	48	55564	012425	55570	012421	G0000	G0014		Trawl		OTH. SPEC.	0	0	9,000	9,000
1995	18-okt-95	SOLE10	48	55564	012425	55570	012421	G0000	G0014		Trawl		SPRAT	71	304	1,000	4,286
1995	18-okt-95	SOLE10	48	55564	012425	55570	012421	G0000	G0014		Trawl		WHITING	1	4	0,200	0,857
1995	18-okt-95	SOLE10	48	55564	012425	55570	012421	G0000	G0014		Trawl		HERRING	872	3737	107,900	462,429
1995	18-okt-95	SOLE10	48	55564	012425	55570	012421	G0000	G0014		Trawl		COD	8	34	17,900	76,714
1995	18-okt-95	SOLE10	47	55479	012498	55483	012480	G0126	G0136		Trawl		SPRAT	41	246	0,800	4,800
1995	18-okt-95	SOLE10	47	55479	012498	55483	012480	G0126	G0136		Trawl		WHITING	18	108	1,900	11,400
1995	18-okt-95	SOLE10	47	55479	012498	55483	012480	G0126	G0136		Trawl		HERRING	717	4302	173,900	1043,400
1995	18-okt-95	SOLE10	47	55479	012498	55483	012480	G0126	G0136		Trawl		COD	26	156	53,300	319,800
1995	18-okt-95	SOLE10	46	55499	012459	55489	012472	G0824	G0841		Trawl		SPRAT	36	127	0,600	2,118
1995	18-okt-95	SOLE10	46	55499	012459	55489	012472	G0824	G0841		Trawl		YELL. EEL	0	0	5,294	5,294
1995	18-okt-95	SOLE10	46	55499	012459	55489	012472	G0824	G0841		Trawl		WHITING	54	191	6,700	23,647
1995	18-okt-95	SOLE10	46	55499	012459	55489	012472	G0824	G0841		Trawl		HERRING	1619	5714	528,200	1864,235
1995	18-okt-95	SOLE10	46	55499	012459	55489	012472	G0824	G0841		Trawl		COD	32	113	63,000	222,353
1996	18-mar-96	SUND01	102	56003	012364	012361	56004	G1725	G1825	12	Gillnet	K52-29MM	HERRING	2	2	0,205	0,205
1996	18-mar-96	SUND01	103	56003	012364	012361	56004	G1725	G1825	12	Gillnet	K52-34MM	HERRING	1	1	0,230	0,230
1996	18-mar-96	SUND01	101	56003	012364	012361	56004	G1725	G1825	12	Gillnet	K52-26MM	HERRING	1	1	0,100	0,100
1996	18-mar-96	SUND01	1501	56003	012364	012564	55371	G1825	G1825	15	Gillnet	HAVKAT	HERRING	34	34	6,400	6,400
1996	18-mar-96	SUND01	303	55590	012369	012367	55592	G2205	G2305	17	Gillnet	K52-27MM	HERRING	1	1	0,140	0,140
1996	18-mar-96	SUND01	302	55590	012369	012367	55592	G2205	G2305	17	Gillnet	K52-26MM	HERRING	2	2	0,300	0,300
1996	18-mar-96	SUND01	304	55590	012369	012367	55592	G2205	G2305	17	Gillnet	K52-28MM	HERRING	2	2	0,300	0,300
1996	18-mar-96	SUND01	301	55590	012369	012367	55592	G2205	G2305	17	Gillnet	K52-21MM	HERRING	2	2	0,200	0,200
1996	19-mar-96	SUND01	504	55586	012438	012436	55581	G0120	G0240	16	Gillnet	K52-27MM	HERRING	49	49	8,600	8,600
1996	19-mar-96	SUND01	503	55586	012438	012436	55581	G0120	G0240	16	Gillnet	K52-26MM	HERRING	41	41	6,700	6,700
1996	19-mar-96	SUND01	507	55586	012438	012436	55581	G0120	G0240	16	Gillnet	K52-34MM	HERRING	7	7	1,700	1,700
1996	19-mar-96	SUND01	502	55586	012438	012436	55581	G0120	G0240	16	Gillnet	K52-21MM	HERRING	10	10	0,910	0,910

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	19-mar-96	SUND01	501	55586	012438	012436	55581	G0120	G0240	16	Gillnet	K52-18,5MM	HERRING	4	4	0,310	0,310
1996	19-mar-96	SUND01	506	55586	012438	012436	55581	G0120	G0240	16	Gillnet	K52-29MM	HERRING	67	67	12,200	12,200
1996	19-mar-96	SUND01	505	55586	012438	012436	55581	G0120	G0240	16	Gillnet	K52-28MM	HERRING	85	85	14,200	14,200
1996	19-mar-96	SUND01	504	55586	012438	012436	55581	G0120	G0240	16	Gillnet	K52-27MM	COD	2	2	2,300	2,300
1996	19-mar-96	SUND01	505	55586	012438	012436	55581	G0120	G0240	16	Gillnet	K52-28MM	COD	1	1	0,850	0,850
1996	19-mar-96	SUND01	603	55559	012462	012459	55560	G1815	G1925	17	Gillnet	K52-26MM	HERRING	38	38	6,200	6,200
1996	19-mar-96	SUND01	607	55559	012462	012459	55560	G1815	G1925	17	Gillnet	K52-34MM	HERRING	2	2	0,600	0,600
1996	19-mar-96	SUND01	602	55559	012462	012459	55560	G1815	G1925	17	Gillnet	K52-21MM	HERRING	14	14	1,500	1,500
1996	19-mar-96	SUND01	608	55559	012462	012459	55560	G1815	G1925	17	Gillnet	K52-55MM	HERRING	2	2	0,340	0,340
1996	19-mar-96	SUND01	606	55559	012462	012459	55560	G1815	G1925	17	Gillnet	K52-29MM	HERRING	56	56	10,200	10,200
1996	19-mar-96	SUND01	604	55559	012462	012459	55560	G1815	G1925	17	Gillnet	K52-27MM	HERRING	50	50	8,200	8,200
1996	19-mar-96	SUND01	605	55559	012462	012459	55560	G1815	G1925	17	Gillnet	K52-28MM	HERRING	58	58	10,400	10,400
1996	19-mar-96	SUND01	601	55559	012462	012459	55560	G1815	G1925	17	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100
1996	19-mar-96	SUND01	601	55559	012462	012459	55560	G1815	G1925	17	Gillnet	K52-18,5MM	COD	1	1	0,090	0,090
1996	19-mar-96	SUND01	602	55559	012462	012459	55560	G1815	G1925	17	Gillnet	K52-21MM	COD	1	1	1,550	1,550
1996	19-mar-96	SUND01	608	55559	012462	012459	55560	G1815	G1925	17	Gillnet	K52-55MM	COD	1	1	1,220	1,220
1996	19-mar-96	SUND01	701	55538	012467	012465	55540	G2215	G2320	16	Gillnet	K52-18,5MM	HERRING	5	5	0,500	0,500
1996	19-mar-96	SUND01	704	55538	012467	012465	55540	G2215	G2320	16	Gillnet	K52-27MM	HERRING	44	44	7,200	7,200
1996	19-mar-96	SUND01	703	55538	012467	012465	55540	G2215	G2320	16	Gillnet	K52-26MM	HERRING	86	86	14,200	14,200
1996	19-mar-96	SUND01	705	55538	012467	012465	55540	G2215	G2320	16	Gillnet	K52-28MM	HERRING	90	90	17,200	17,200
1996	19-mar-96	SUND01	702	55538	012467	012465	55540	G2215	G2320	16	Gillnet	K52-21MM	HERRING	47	47	5,500	5,500
1996	19-mar-96	SUND01	706	55538	012467	012465	55540	G2215	G2320	16	Gillnet	K52-29MM	HERRING	112	112	21,200	21,200
1996	19-mar-96	SUND01	707	55538	012467	012465	55540	G2215	G2320	16	Gillnet	K52-34MM	HERRING	8	8	2,200	2,200
1996	19-mar-96	SUND01	707	55538	012467	012465	55540	G2215	G2320	16	Gillnet	K52-34MM	COD	2	2	0,890	0,890
1996	20-mar-96	SUND01	804	55504	012464	012462	55505	G0200	G0330	14	Gillnet	K52-28MM	HERRING	26	26	4,700	4,700
1996	20-mar-96	SUND01	806	55504	012464	012462	55505	G0200	G0330	14	Gillnet	K52-34MM	HERRING	1	1	0,100	0,100
1996	20-mar-96	SUND01	805	55504	012464	012462	55505	G0200	G0330	14	Gillnet	K52-29MM	HERRING	45	45	8,300	8,300
1996	20-mar-96	SUND01	803	55504	012464	012462	55505	G0200	G0330	14	Gillnet	K52-27MM	HERRING	16	16	2,900	2,900
1996	20-mar-96	SUND01	802	55504	012464	012462	55505	G0200	G0330	14	Gillnet	K52-26MM	HERRING	2	2	0,370	0,370
1996	20-mar-96	SUND01	801	55504	012464	012462	55505	G0200	G0330	14	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100
1996	20-mar-96	SUND01	804	55504	012464	012462	55505	G0200	G0330	14	Gillnet	K52-28MM	COD	1	1	1,100	1,100
1996	20-mar-96	SUND01	806	55504	012464	012462	55505	G0200	G0330	14	Gillnet	K52-34MM	COD	1	1	0,600	0,600

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	20-mar-96	SUND01	803	55504	012464	012462	55505	G0200	G0330	14	Gillnet	K52-27MM	COD	1	1	0,100	0,100
1996	20-mar-96	SUND01	807	55504	012464	012462	55505	G0200	G0330	14	Gillnet	K52-55MM	COD	3	3	4,000	4,000
1996	20-mar-96	SUND01	903	55482	012519	012515	55483	G1935	G2045	17	Gillnet	K52-26MM	WHITING	1	1	0,200	0,200
1996	20-mar-96	SUND01	902	55482	012519	012515	55483	G1935	G2045	17	Gillnet	K52-21MM	HERRING	12	12	1,110	1,110
1996	20-mar-96	SUND01	903	55482	012519	012515	55483	G1935	G2045	17	Gillnet	K52-26MM	HERRING	6	6	1,000	1,000
1996	20-mar-96	SUND01	906	55482	012519	012515	55483	G1935	G2045	17	Gillnet	K52-29MM	HERRING	13	13	2,450	2,450
1996	20-mar-96	SUND01	904	55482	012519	012515	55483	G1935	G2045	17	Gillnet	K52-27MM	HERRING	10	10	1,870	1,870
1996	20-mar-96	SUND01	905	55482	012519	012515	55483	G1935	G2045	17	Gillnet	K52-28MM	HERRING	13	13	2,180	2,180
1996	20-mar-96	SUND01	901	55482	012519	012515	55483	G1935	G2045	17	Gillnet	K52-18,5MM	HERRING	5	5	0,390	0,390
1996	20-mar-96	SUND01	904	55482	012519	012515	55483	G1935	G2045	17	Gillnet	K52-27MM	COD	1	1	0,400	0,400
1996	20-mar-96	SUND01	1005	55468	012534	012532	55470	G2140	G0000	15	Gillnet	K52-28MM	KUL	1	1	0,960	0,960
1996	20-mar-96	SUND01	1004	55468	012534	012532	55470	G2140	G0000	15	Gillnet	K52-27MM	HERRING	25	25	4,600	4,600
1996	20-mar-96	SUND01	1002	55468	012534	012532	55470	G2140	G0000	15	Gillnet	K52-21MM	HERRING	38	38	3,400	3,400
1996	20-mar-96	SUND01	1003	55468	012534	012532	55470	G2140	G0000	15	Gillnet	K52-26MM	HERRING	20	20	3,400	3,400
1996	20-mar-96	SUND01	1006	55468	012534	012532	55470	G2140	G0000	15	Gillnet	K52-29MM	HERRING	19	19	3,400	3,400
1996	20-mar-96	SUND01	1005	55468	012534	012532	55470	G2140	G0000	15	Gillnet	K52-28MM	HERRING	15	15	2,600	2,600
1996	20-mar-96	SUND01	1001	55468	012534	012532	55470	G2140	G0000	15	Gillnet	K52-18,5MM	HERRING	34	34	2,200	2,200
1996	20-mar-96	SUND01	1004	55468	012534	012532	55470	G2140	G0000	15	Gillnet	K52-27MM	COD	1	1	0,300	0,300
1996	20-mar-96	SUND01	1002	55468	012534	012532	55470	G2140	G0000	15	Gillnet	K52-21MM	COD	1	1	1,090	1,090
1996	20-mar-96	SUND01	1007	55468	012534	012532	55470	G2140	G0000	15	Gillnet	K52-34MM	COD	1	1	1,500	1,500
1996	20-mar-96	SUND01	1008	55468	012534	012532	55470	G2140	G0000	15	Gillnet	K52-55MM	COD	2	2	3,500	3,500
1996	21-mar-96	SUND01	1106	55429	012551	012547	55430	G0155	G0420	15	Gillnet	K52-29MM	HERRING	63	63	12,400	12,400
1996	21-mar-96	SUND01	1102	55429	012551	012547	55430	G0155	G0420	15	Gillnet	K52-21MM	HERRING	14	14	1,330	1,330
1996	21-mar-96	SUND01	1101	55429	012551	012547	55430	G0155	G0420	15	Gillnet	K52-18,5MM	HERRING	3	3	0,190	0,190
1996	21-mar-96	SUND01	1104	55429	012551	012547	55430	G0155	G0420	15	Gillnet	K52-27MM	HERRING	9	9	1,750	1,750
1996	21-mar-96	SUND01	1105	55429	012551	012547	55430	G0155	G0420	15	Gillnet	K52-28MM	HERRING	38	38	7,200	7,200
1996	21-mar-96	SUND01	1103	55429	012551	012547	55430	G0155	G0420	15	Gillnet	K52-26MM	HERRING	11	11	1,780	1,780
1996	21-mar-96	SUND01	1107	55429	012551	012547	55430	G0155	G0420	15	Gillnet	K52-34MM	HERRING	1	1	0,300	0,300
1996	21-mar-96	SUND01	1203	55415	012567	012564	55416	G1735	G1845	14	Gillnet	K52-26MM	HERRING	17	17	2,900	2,900
1996	21-mar-96	SUND01	1201	55415	012567	012564	55416	G1735	G1845	14	Gillnet	K52-18,5MM	HERRING	2	2	0,130	0,130
1996	21-mar-96	SUND01	1205	55415	012567	012564	55416	G1735	G1845	14	Gillnet	K52-28MM	HERRING	24	24	4,600	4,600
1996	21-mar-96	SUND01	1202	55415	012567	012564	55416	G1735	G1845	14	Gillnet	K52-21MM	HERRING	16	16	1,650	1,650

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	21-mar-96	SUND01	1204	55415	012567	012564	55416	G1735	G1845	14	Gillnet	K52-27MM	HERRING	33	33	6,700	6,700
1996	21-mar-96	SUND01	1206	55415	012567	012564	55416	G1735	G1845	14	Gillnet	K52-29MM	HERRING	5	5	0,900	0,900
1996	21-mar-96	SUND01	1203	55415	012567	012564	55416	G1735	G1845	14	Gillnet	K52-26MM	COD	1	1	0,520	0,520
1996	21-mar-96	SUND01	1303	55396	012580	012601	55398	G2020	G2100	12	Gillnet	K52-26MM	HERRING	5	5	0,690	0,690
1996	21-mar-96	SUND01	1302	55396	012580	012601	55398	G2020	G2100	12	Gillnet	K52-21MM	HERRING	1	1	0,080	0,080
1996	21-mar-96	SUND01	1306	55396	012580	012601	55398	G2020	G2100	12	Gillnet	K52-29MM	HERRING	9	9	1,800	1,800
1996	21-mar-96	SUND01	1304	55396	012580	012601	55398	G2020	G2100	12	Gillnet	K52-27MM	HERRING	10	10	1,880	1,880
1996	21-mar-96	SUND01	1301	55396	012580	012601	55398	G2020	G2100	12	Gillnet	K52-18,5MM	HERRING	1	1	0,060	0,060
1996	21-mar-96	SUND01	1307	55396	012580	012601	55398	G2020	G2100	12	Gillnet	K52-34MM	HERRING	1	1	0,280	0,280
1996	21-mar-96	SUND01	1305	55396	012580	012601	55398	G2020	G2100	12	Gillnet	K52-28MM	HERRING	5	5	1,000	1,000
1996	21-mar-96	SUND01	1301	55396	012580	012601	55398	G2020	G2100	12	Gillnet	K52-18,5MM	LUMPSUCKER	1	1	1,920	1,920
1996	21-mar-96	SUND01	1304	55396	012580	012601	55398	G2020	G2100	12	Gillnet	K52-27MM	COD	1	1	0,820	0,820
1996	21-mar-96	SUND01	1308	55396	012580	012601	55398	G2020	G2100	12	Gillnet	K52-55MM	COD	1	1	1,180	1,180
1996	21-mar-96	SUND01	1305	55396	012580	012601	55398	G2020	G2100	12	Gillnet	K52-28MM	COD	1	1	1,300	1,300
1996	21-mar-96	SUND01	1401	55369	012563	012564	55371	G2210	G2315	14	Gillnet	K52-18,5MM	HERRING	17	17	1,250	1,250
1996	21-mar-96	SUND01	1405	55369	012563	012564	55371	G2210	G2315	14	Gillnet	K52-28MM	HERRING	30	30	5,700	5,700
1996	21-mar-96	SUND01	1406	55369	012563	012564	55371	G2210	G2315	14	Gillnet	K52-29MM	HERRING	43	43	8,200	8,200
1996	21-mar-96	SUND01	1407	55369	012563	012564	55371	G2210	G2315	14	Gillnet	K52-34MM	HERRING	1	1	0,300	0,300
1996	21-mar-96	SUND01	1402	55369	012563	012564	55371	G2210	G2315	14	Gillnet	K52-21MM	HERRING	54	54	5,200	5,200
1996	21-mar-96	SUND01	1404	55369	012563	012564	55371	G2210	G2315	14	Gillnet	K52-27MM	HERRING	47	47	9,400	9,400
1996	21-mar-96	SUND01	1403	55369	012563	012564	55371	G2210	G2315	14	Gillnet	K52-26MM	HERRING	40	40	5,800	5,800
1996	21-mar-96	SUND01	1404	55369	012563	012564	55371	G2210	G2315	14	Gillnet	K52-27MM	COD	2	2	2,300	2,300
1996	21-mar-96	SUND01	1405	55369	012563	012564	55371	G2210	G2315	14	Gillnet	K52-28MM	COD	1	1	0,120	0,120
1996	30-jun-96	SUND10	5901	56000	012300	013000	55325	G1845	G1945	15	Gillnet		WHITING	1	1	0,025	0,025
1996	30-jun-96	SUND10	5901	56000	012300	013000	55325	G1845	G1945	15	Gillnet		HERRING	145	145	24,585	24,585
1996	30-sep-96	SUND10	5486	55487	012394	012392	55486	G2028	G2133	11	Gillnet	K52-29MM	HERRING	1	1	0,120	0,120
1996	30-sep-96	SUND10	5484	55487	012394	012392	55486	G2028	G2133	11	Gillnet	K52-27MM	HERRING	2	2	0,250	0,250
1996	30-sep-96	SUND10	5483	55487	012394	012392	55486	G2028	G2133	11	Gillnet	K52-26MM	HERRING	13	13	1,800	1,800
1996	30-sep-96	SUND10	5482	55487	012394	012392	55486	G2028	G2133	11	Gillnet	K52-21MM	HERRING	5	5	0,475	0,475
1996	30-sep-96	SUND10	5485	55487	012394	012392	55486	G2028	G2133	11	Gillnet	K52-28MM	HERRING	4	4	0,600	0,600
1996	30-sep-96	SUND10	5487	55487	012394	012392	55486	G2028	G2133	11	Gillnet	K52-34MM	HERRING	1	1	0,075	0,075
1996	30-sep-96	SUND10	5481	55487	012394	012392	55486	G2028	G2133	11	Gillnet	K52-18,5MM	HERRING	2	2	0,110	0,110

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	30-sep-96	SUND10	5481	55487	012394	012392	55486	G2028	G2133	11	Gillnet	K52-18,5MM	COD	1	1	0,025	0,025
1996	30-sep-96	SUND10	5497	55469	012380	012383	55466	G2244	G0039	7	Gillnet	K52-34MM	HERRING	1	1	0,200	0,200
1996	30-sep-96	SUND10	5495	55469	012380	012383	55466	G2244	G0039	7	Gillnet	K52-28MM	HERRING	3	3	0,425	0,425
1996	30-sep-96	SUND10	5491	55469	012380	012383	55466	G2244	G0039	7	Gillnet	K52-18,5MM	HERRING	6	6	0,396	0,396
1996	30-sep-96	SUND10	5494	55469	012380	012383	55466	G2244	G0039	7	Gillnet	K52-27MM	HERRING	17	17	2,600	2,600
1996	30-sep-96	SUND10	5496	55469	012380	012383	55466	G2244	G0039	7	Gillnet	K52-29MM	HERRING	9	9	1,530	1,530
1996	30-sep-96	SUND10	5492	55469	012380	012383	55466	G2244	G0039	7	Gillnet	K52-21MM	HERRING	12	12	0,980	0,980
1996	30-sep-96	SUND10	5493	55469	012380	012383	55466	G2244	G0039	7	Gillnet	K52-26MM	HERRING	7	7	0,775	0,775
1996	30-sep-96	SUND10	5497	55469	012380	012383	55466	G2244	G0039	7	Gillnet	K52-34MM	COD	1	1	0,290	0,290
1996	01-okt-96	SUND10	5505	55512	012379	012383	55511	G0217	G0302	10	Gillnet	K52-28MM	HERRING	4	4	0,675	0,675
1996	01-okt-96	SUND10	5502	55512	012379	012383	55511	G0217	G0302	10	Gillnet	K52-21MM	HERRING	52	52	4,660	4,660
1996	01-okt-96	SUND10	5501	55512	012379	012383	55511	G0217	G0302	10	Gillnet	K52-18,5MM	HERRING	3	3	0,200	0,200
1996	01-okt-96	SUND10	5506	55512	012379	012383	55511	G0217	G0302	10	Gillnet	K52-29MM	HERRING	7	7	1,120	1,120
1996	01-okt-96	SUND10	5503	55512	012379	012383	55511	G0217	G0302	10	Gillnet	K52-26MM	HERRING	35	35	4,435	4,435
1996	01-okt-96	SUND10	5504	55512	012379	012383	55511	G0217	G0302	10	Gillnet	K52-27MM	HERRING	19	19	1,120	1,120
1996	01-okt-96	SUND10	5511	55529	012355	012356	55528	G1715	G1825	10	Gillnet	K52-26MM	HERRING	5	5	0,725	0,725
1996	01-okt-96	SUND10	5512	55529	012355	012356	55528	G1715	G1825	10	Gillnet	K52-27MM	HERRING	16	16	2,385	2,385
1996	01-okt-96	SUND10	5514	55529	012355	012356	55528	G1715	G1825	10	Gillnet	K52-29MM	HERRING	2	2	0,300	0,300
1996	01-okt-96	SUND10	5513	55529	012355	012356	55528	G1715	G1825	10	Gillnet	K52-28MM	HERRING	5	5	0,900	0,900
1996	01-okt-96	SUND10	5523	55571	012333	013337	55570	G1950	G2150	8	Gillnet	K52-27MM	WHITING	1	1	0,125	0,125
1996	01-okt-96	SUND10	5524	55571	012333	013337	55570	G1950	G2150	8	Gillnet	K52-28MM	MACKEREL	1	1	0,775	0,775
1996	01-okt-96	SUND10	5526	55571	012333	013337	55570	G1950	G2150	8	Gillnet	K52-34MM	MACKEREL	1	1	0,625	0,625
1996	01-okt-96	SUND10	5526	55571	012333	013337	55570	G1950	G2150	8	Gillnet	K52-34MM	SAITHE	1	1	0,275	0,275
1996	01-okt-96	SUND10	5524	55571	012333	013337	55570	G1950	G2150	8	Gillnet	K52-28MM	HERRING	26	26	4,300	4,300
1996	01-okt-96	SUND10	5521	55571	012333	013337	55570	G1950	G2150	8	Gillnet	K52-18,5MM	HERRING	14	14	1,020	1,020
1996	01-okt-96	SUND10	5522	55571	012333	013337	55570	G1950	G2150	8	Gillnet	K52-21MM	HERRING	33	33	4,100	4,100
1996	01-okt-96	SUND10	5526	55571	012333	013337	55570	G1950	G2150	8	Gillnet	K52-34MM	HERRING	2	2	0,550	0,550
1996	01-okt-96	SUND10	5525	55571	012333	013337	55570	G1950	G2150	8	Gillnet	K52-29MM	HERRING	80	80	13,000	13,000
1996	01-okt-96	SUND10	5527	55571	012333	013337	55570	G1950	G2150	8	Gillnet	K52-60MM	COD	1	1	2,300	2,300
1996	01-okt-96	SUND10	5523	55571	012333	013337	55570	G1950	G2150	8	Gillnet	K52-27MM	COD	1	1	0,100	0,100
1996	02-okt-96	SUND10	5535	55589	012351	012354	55588	G0015	G0140	14	Gillnet	K52-28MM	WHITING	5	5	1,150	1,150
1996	02-okt-96	SUND10	5534	55589	012351	012354	55588	G0015	G0140	14	Gillnet	K52-27MM	WHITING	3	3	0,325	0,325

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	02-okt-96	SUND10	5533	55589	012351	012354	55588	G0015	G0140	14	Gillnet	K52-26MM	WHITING	4	4	0,830	0,830
1996	02-okt-96	SUND10	5535	55589	012351	012354	55588	G0015	G0140	14	Gillnet	K52-28MM	HERRING	36	36	6,050	6,050
1996	02-okt-96	SUND10	5534	55589	012351	012354	55588	G0015	G0140	14	Gillnet	K52-27MM	HERRING	77	77	12,470	12,470
1996	02-okt-96	SUND10	5532	55589	012351	012354	55588	G0015	G0140	14	Gillnet	K52-21MM	HERRING	81	81	7,430	7,430
1996	02-okt-96	SUND10	5533	55589	012351	012354	55588	G0015	G0140	14	Gillnet	K52-26MM	HERRING	67	67	10,505	10,505
1996	02-okt-96	SUND10	5531	55589	012351	012354	55588	G0015	G0140	14	Gillnet	K52-18,5MM	HERRING	40	40	3,050	3,050
1996	02-okt-96	SUND10	5536	55589	012351	012354	55588	G0015	G0140	14	Gillnet	K52-29MM	HERRING	34	34	5,550	5,550
1996	02-okt-96	SUND10	5542	55597	012434	012435	55595	G1831	G1946	13	Gillnet	K52-21MM	WHITING	1	1	0,090	0,090
1996	02-okt-96	SUND10	5545	55597	012434	012435	55595	G1831	G1946	13	Gillnet	K52-28MM	HERRING	14	14	3,000	3,000
1996	02-okt-96	SUND10	5546	55597	012434	012435	55595	G1831	G1946	13	Gillnet	K52-29MM	HERRING	15	15	2,620	2,620
1996	02-okt-96	SUND10	5541	55597	012434	012435	55595	G1831	G1946	13	Gillnet	K52-18,5MM	HERRING	38	38	2,550	2,550
1996	02-okt-96	SUND10	5542	55597	012434	012435	55595	G1831	G1946	13	Gillnet	K52-21MM	HERRING	41	41	3,970	3,970
1996	02-okt-96	SUND10	5543	55597	012434	012435	55595	G1831	G1946	13	Gillnet	K52-26MM	HERRING	17	17	2,850	2,850
1996	02-okt-96	SUND10	5544	55597	012434	012435	55595	G1831	G1946	13	Gillnet	K52-27MM	HERRING	18	18	3,325	3,325
1996	02-okt-96	SOLE10	2	55486	012485	55490	012470	G2100	G2115		Trawl		SPRAT	42	1927	0,641	29,416
1996	02-okt-96	SOLE10	2	55486	012485	55490	012470	G2100	G2115		Trawl		WHITING	3	135	0,220	9,924
1996	02-okt-96	SOLE10	2	55486	012485	55490	012470	G2100	G2115		Trawl		HERRING	305	13972	37,822	1732,660
1996	02-okt-96	SOLE10	2	55486	012485	55490	012470	G2100	G2115		Trawl		COD	20	80	57,000	228,000
1996	02-okt-96	SUND10	5552	55537	012469	012470	55534	G2145	G2345	15	Gillnet	K52-26MM	HERRING	2	2	0,380	0,380
1996	02-okt-96	SUND10	5554	55537	012469	012470	55534	G2145	G2345	15	Gillnet	K52-28MM	HERRING	13	13	2,620	2,620
1996	02-okt-96	SUND10	5551	55537	012469	012470	55534	G2145	G2345	15	Gillnet	K52-21MM	HERRING	1	1	0,100	0,100
1996	02-okt-96	SUND10	5553	55537	012469	012470	55534	G2145	G2345	15	Gillnet	K52-27MM	HERRING	10	10	2,000	2,000
1996	02-okt-96	SUND10	5555	55537	012469	012470	55534	G2145	G2345	15	Gillnet	K52-29MM	HERRING	4	4	0,660	0,660
1996	02-okt-96	SOLE10	3	55572	012425	55583	012416	G2336	G0007		Trawl		ANS	1	2	0,002	0,004
1996	02-okt-96	SOLE10	3	55572	012425	55583	012416	G2336	G0007		Trawl		SPRAT	6	12	0,117	0,226
1996	02-okt-96	SOLE10	3	55572	012425	55583	012416	G2336	G0007		Trawl		TRANSP. GOBY	3	6	0,002	0,004
1996	02-okt-96	SOLE10	3	55572	012425	55583	012416	G2336	G0007		Trawl		H. MACKEREL	10	19	0,026	0,050
1996	02-okt-96	SOLE10	3	55572	012425	55583	012416	G2336	G0007		Trawl		WHITING	3	6	0,279	0,540
1996	02-okt-96	SOLE10	3	55572	012425	55583	012416	G2336	G0007		Trawl		HERRING	325	629	13,209	25,566
1996	02-okt-96	SOLE10	3	55572	012425	55583	012416	G2336	G0007		Trawl		COD	4	8	2,510	4,858
1996	03-okt-96	SUND10	5561	55559	012457	012458	55556	G0120	G0230	15	Gillnet	K52-18,5MM	HERRING	1	1	0,040	0,040
1996	03-okt-96	SUND10	5565	55559	012457	012458	55556	G0120	G0230	15	Gillnet	K52-29MM	HERRING	4	4	0,650	0,650

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1996	03-okt-96	SUND10	5566	55559	012457	012458	55556	G0120	G0230	15	Gillnet	K52-34MM	HERRING	1	1	0,235	0,235
1996	03-okt-96	SUND10	5564	55559	012457	012458	55556	G0120	G0230	15	Gillnet	K52-28MM	HERRING	3	3	0,490	0,490
1996	03-okt-96	SUND10	5562	55559	012457	012458	55556	G0120	G0230	15	Gillnet	K52-21MM	HERRING	2	2	0,300	0,300
1996	03-okt-96	SUND10	5563	55559	012457	012458	55556	G0120	G0230	15	Gillnet	K52-27MM	HERRING	4	4	0,580	0,580
1996	03-okt-96	SUND10	5567	55559	012457	012458	55556	G0120	G0230	15	Gillnet	K52-60MM	COD	1	1	1,425	1,425
1996	03-okt-96	SUND10	5574	56081	012367	012368	56003	G1730	G1900	20	Gillnet	K52-27MM	WHITING	1	1	0,155	0,155
1996	03-okt-96	SUND10	5573	56081	012367	012368	56003	G1730	G1900	20	Gillnet	K52-26MM	WHITING	2	2	0,375	0,375
1996	03-okt-96	SUND10	5571	56081	012367	012368	56003	G1730	G1900	20	Gillnet	K52-18,5MM	MACKEREL	2	2	1,380	1,380
1996	03-okt-96	SUND10	5575	56081	012367	012368	56003	G1730	G1900	20	Gillnet	K52-28MM	HERRING	6	6	0,920	0,920
1996	03-okt-96	SUND10	5574	56081	012367	012368	56003	G1730	G1900	20	Gillnet	K52-27MM	HERRING	15	15	2,250	2,250
1996	03-okt-96	SUND10	5572	56081	012367	012368	56003	G1730	G1900	20	Gillnet	K52-21MM	HERRING	24	24	3,190	3,190
1996	03-okt-96	SUND10	5576	56081	012367	012368	56003	G1730	G1900	20	Gillnet	K52-29MM	HERRING	2	2	0,325	0,325
1996	03-okt-96	SUND10	5571	56081	012367	012368	56003	G1730	G1900	20	Gillnet	K52-18,5MM	HERRING	11	11	1,300	1,300
1996	03-okt-96	SUND10	5573	56081	012367	012368	56003	G1730	G1900	20	Gillnet	K52-26MM	HERRING	8	8	1,280	1,280
1996	04-okt-96	SUND10	5584	55505	012464	012466	55505	G1820	G1855	14	Gillnet	K52-28MM	WHITING	1	1	0,025	0,025
1996	04-okt-96	SUND10	5584	55505	012464	012466	55505	G1820	G1855	14	Gillnet	K52-28MM	HERRING	18	18	3,540	3,540
1996	04-okt-96	SUND10	5586	55505	012464	012466	55505	G1820	G1855	14	Gillnet	K52-34MM	HERRING	7	7	1,700	1,700
1996	04-okt-96	SUND10	5585	55505	012464	012466	55505	G1820	G1855	14	Gillnet	K52-29MM	HERRING	23	23	4,540	4,540
1996	04-okt-96	SUND10	5583	55505	012464	012466	55505	G1820	G1855	14	Gillnet	K52-27MM	HERRING	7	7	1,310	1,310
1996	04-okt-96	SUND10	5582	55505	012464	012466	55505	G1820	G1855	14	Gillnet	K52-26MM	HERRING	36	36	5,420	5,420
1996	04-okt-96	SUND10	5581	55505	012464	012466	55505	G1820	G1855	14	Gillnet	K52-21MM	HERRING	34	34	3,510	3,510
1996	04-okt-96	SUND10	5595	55489	012524	012527	55491	G2000	G2200	11	Gillnet	K52-28MM	SAITHE	1	1	0,300	0,300
1996	04-okt-96	SUND10	5591	55489	012524	012527	55491	G2000	G2200	11	Gillnet	K52-18,5MM	HERRING	10	10	0,810	0,810
1996	04-okt-96	SUND10	5592	55489	012524	012527	55491	G2000	G2200	11	Gillnet	K52-21MM	HERRING	27	27	2,440	2,440
1996	04-okt-96	SUND10	5597	55489	012524	012527	55491	G2000	G2200	11	Gillnet	K52-34MM	HERRING	7	7	1,900	1,900
1996	04-okt-96	SUND10	5593	55489	012524	012527	55491	G2000	G2200	11	Gillnet	K52-26MM	HERRING	13	13	2,410	2,410
1996	04-okt-96	SUND10	5595	55489	012524	012527	55491	G2000	G2200	11	Gillnet	K52-28MM	HERRING	70	70	14,230	14,230
1996	04-okt-96	SUND10	5594	55489	012524	012527	55491	G2000	G2200	11	Gillnet	K52-27MM	HERRING	67	67	11,260	11,260
1996	04-okt-96	SUND10	5596	55489	012524	012527	55491	G2000	G2200	11	Gillnet	K52-29MM	HERRING	42	42	8,200	8,200
1996	05-okt-96	SUND10	5611	55413	012578	012574	55414	G2135	G2235	13	Gillnet	K52-18,5MM	HERRING	11	11	1,080	1,080
1996	05-okt-96	SUND10	5613	55413	012578	012574	55414	G2135	G2235	13	Gillnet	K52-26MM	HERRING	91	91	19,010	19,010
1996	05-okt-96	SUND10	5612	55413	012578	012574	55414	G2135	G2235	13	Gillnet	K52-21MM	HERRING	63	63	6,500	6,500

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	05-okt-96	SUND10	5617	55413	012578	012574	55414	G2135	G2235	13	Gillnet	K52-34MM	HERRING	7	7	1,900	1,900
1996	05-okt-96	SUND10	5615	55413	012578	012574	55414	G2135	G2235	13	Gillnet	K52-28MM	HERRING	5	5	0,980	0,980
1996	05-okt-96	SUND10	5616	55413	012578	012574	55414	G2135	G2235	13	Gillnet	K52-29MM	HERRING	21	21	4,040	4,040
1996	05-okt-96	SUND10	5614	55413	012578	012574	55414	G2135	G2235	13	Gillnet	K52-27MM	HERRING	74	74	12,440	12,440
1996	05-okt-96	SUND10	5613	55413	012578	012574	55414	G2135	G2235	13	Gillnet	K52-26MM	COD	1	1	1,050	1,050
1996	05-okt-96	SUND10	5626	55369	012563	012561	55371	G2355	G0110	15	Gillnet	K52-29MM	GARFISH	1	1	0,600	0,600
1996	05-okt-96	SUND10	5623	55369	012563	012561	55371	G2355	G0110	15	Gillnet	K52-26MM	HERRING	12	12	2,150	2,150
1996	05-okt-96	SUND10	5625	55369	012563	012561	55371	G2355	G0110	15	Gillnet	K52-28MM	HERRING	43	43	8,180	8,180
1996	05-okt-96	SUND10	5624	55369	012563	012561	55371	G2355	G0110	15	Gillnet	K52-27MM	HERRING	24	24	4,220	4,220
1996	05-okt-96	SUND10	5627	55369	012563	012561	55371	G2355	G0110	15	Gillnet	K52-34MM	HERRING	5	5	1,260	1,260
1996	05-okt-96	SUND10	5622	55369	012563	012561	55371	G2355	G0110	15	Gillnet	K52-21MM	HERRING	40	40	4,010	4,010
1996	05-okt-96	SUND10	5626	55369	012563	012561	55371	G2355	G0110	15	Gillnet	K52-29MM	HERRING	56	56	10,500	10,500
1996	05-okt-96	SUND10	5621	55369	012563	012561	55371	G2355	G0110	15	Gillnet	K52-18,5MM	HERRING	6	6	0,425	0,425
1996	05-okt-96	SUND10	5627	55369	012563	012561	55371	G2355	G0110	15	Gillnet	K52-34MM	COD	1	1	1,420	1,420
1996	05-okt-96	SUND10	5628	55369	012563	012561	55371	G2355	G0110	15	Gillnet	K52-60MM	COD	1	1	2,750	2,750
1996	06-okt-96	SUND10	5636	55388	012581	012579	55390	G0213	G0315	13	Gillnet	K52-29MM	GARFISH	1	1	0,680	0,680
1996	06-okt-96	SUND10	5635	55388	012581	012579	55390	G0213	G0315	13	Gillnet	K52-28MM	WHITING	1	1	0,130	0,130
1996	06-okt-96	SUND10	5633	55388	012581	012579	55390	G0213	G0315	13	Gillnet	K52-26MM	HERRING	43	43	7,640	7,640
1996	06-okt-96	SUND10	5634	55388	012581	012579	55390	G0213	G0315	13	Gillnet	K52-27MM	HERRING	46	46	7,670	7,670
1996	06-okt-96	SUND10	5635	55388	012581	012579	55390	G0213	G0315	13	Gillnet	K52-28MM	HERRING	18	18	3,490	3,490
1996	06-okt-96	SUND10	5636	55388	012581	012579	55390	G0213	G0315	13	Gillnet	K52-29MM	HERRING	14	14	2,820	2,820
1996	06-okt-96	SUND10	5631	55388	012581	012579	55390	G0213	G0315	13	Gillnet	K52-18,5MM	HERRING	8	8	0,730	0,730
1996	06-okt-96	SUND10	5632	55388	012581	012579	55390	G0213	G0315	13	Gillnet	K52-21MM	HERRING	2	2	0,220	0,220
1996	06-okt-96	SUND10	5637	55388	012581	012579	55390	G0213	G0315	13	Gillnet	K52-34MM	HERRING	2	2	0,420	0,420
1996	06-okt-96	SUND10	5642	55468	012538	012535	55469	G1630	G1715	15	Gillnet	K52-21MM	WHITING	1	1	0,100	0,100
1996	06-okt-96	SUND10	5645	55468	012538	012535	55469	G1630	G1715	15	Gillnet	K52-28MM	WHITING	1	1	0,125	0,125
1996	06-okt-96	SUND10	5645	55468	012538	012535	55469	G1630	G1715	15	Gillnet	K52-28MM	HERRING	31	31	7,700	7,700
1996	06-okt-96	SUND10	5642	55468	012538	012535	55469	G1630	G1715	15	Gillnet	K52-21MM	HERRING	89	89	11,300	11,300
1996	06-okt-96	SUND10	5644	55468	012538	012535	55469	G1630	G1715	15	Gillnet	K52-27MM	HERRING	39	39	7,200	7,200
1996	06-okt-96	SUND10	5643	55468	012538	012535	55469	G1630	G1715	15	Gillnet	K52-26MM	HERRING	105	105	21,300	21,300
1996	06-okt-96	SUND10	5647	55468	012538	012535	55469	G1630	G1715	15	Gillnet	K52-34MM	HERRING	6	6	1,400	1,400
1996	06-okt-96	SUND10	5641	55468	012538	012535	55469	G1630	G1715	15	Gillnet	K52-18,5MM	HERRING	13	13	1,400	1,400

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	06-okt-96	SUND10	5646	55468	012538	012535	55469	G1630	G1715	15	Gillnet	K52-29MM	HERRING	80	80	18,200	18,200
1996	06-okt-96	SUND10	5651	55431	012546	012543	55432	G1840	G1940	15	Gillnet	K52-21MM	SPRAT	1	1	0,020	0,020
1996	06-okt-96	SUND10	5654	55431	012546	012543	55432	G1840	G1940	15	Gillnet	K52-28MM	HERRING	1	1	0,125	0,125
1996	06-okt-96	SUND10	5655	55431	012546	012543	55432	G1840	G1940	15	Gillnet	K52-29MM	HERRING	3	3	0,500	0,500
1996	06-okt-96	SUND10	5652	55431	012546	012543	55432	G1840	G1940	15	Gillnet	K52-26MM	HERRING	1	1	0,100	0,100
1996	06-okt-96	SUND10	5651	55431	012546	012543	55432	G1840	G1940	15	Gillnet	K52-21MM	HERRING	1	1	0,075	0,075
1996	06-okt-96	SUND10	5653	55431	012546	012543	55432	G1840	G1940	15	Gillnet	K52-27MM	COD	1	1	0,095	0,095
1996	11-nov-96	SUND11	5663	55473	012533	012531	55475	G2030	G2105	15	Gillnet	K52-27MM	HERRING	1	1	0,200	0,200
1996	11-nov-96	SUND11	5661	55473	012533	012531	55475	G2030	G2105	15	Gillnet	K52-21MM	HERRING	1	1	0,150	0,150
1996	11-nov-96	SUND11	5881	56000	012300	013000	55325	G2030	G2130	15	Gillnet		HERRING	48	48	7,300	7,300
1996	11-nov-96	SUND11	5664	55473	012533	012531	55475	G2030	G2105	15	Gillnet	K52-29MM	HERRING	1	1	0,200	0,200
1996	11-nov-96	SUND11	5662	55473	012533	012531	55475	G2030	G2105	15	Gillnet	K52-26MM	HERRING	3	3	0,450	0,450
1996	11-nov-96	SUND11	5671	55483	012519	012516	55484	G2145	G2220	14	Gillnet	K52-18,5MM	HERRING	2	2	0,200	0,200
1996	11-nov-96	SUND11	5676	55483	012519	012516	55484	G2145	G2220	14	Gillnet	K52-29MM	HERRING	4	4	0,800	0,800
1996	11-nov-96	SUND11	5675	55483	012519	012516	55484	G2145	G2220	14	Gillnet	K52-28MM	HERRING	1	1	0,150	0,150
1996	11-nov-96	SUND11	5677	55483	012519	012516	55484	G2145	G2220	14	Gillnet	K52-34MM	HERRING	2	2	0,600	0,600
1996	11-nov-96	SUND11	5672	55483	012519	012516	55484	G2145	G2220	14	Gillnet	K52-21MM	HERRING	2	2	0,200	0,200
1996	11-nov-96	SUND11	5673	55483	012519	012516	55484	G2145	G2220	14	Gillnet	K52-26MM	HERRING	2	2	0,250	0,250
1996	11-nov-96	SUND11	5674	55483	012519	012516	55484	G2145	G2220	14	Gillnet	K52-27MM	HERRING	7	7	1,150	1,150
1996	12-nov-96	SUND11	5682	55489	012397	012396	55491	G0016	G0125	10	Gillnet	K52-27MM	HERRING	11	11	1,500	1,500
1996	12-nov-96	SUND11	5681	55489	012397	012396	55491	G0016	G0125	10	Gillnet	K52-26MM	HERRING	4	4	0,650	0,650
1996	12-nov-96	SUND11	5685	55489	012397	012396	55491	G0016	G0125	10	Gillnet	K52-34MM	HERRING	4	4	1,100	1,100
1996	12-nov-96	SUND11	5683	55489	012397	012396	55491	G0016	G0125	10	Gillnet	K52-28MM	HERRING	3	3	0,600	0,600
1996	12-nov-96	SUND11	5684	55489	012397	012396	55491	G0016	G0125	10	Gillnet	K52-29MM	HERRING	4	7	1,200	1,200
1996	12-nov-96	SUND11	5695	55522	012361	012360	55524	G0226	G0336	15	Gillnet	K52-28MM	HERRING	2	2	0,300	0,300
1996	12-nov-96	SUND11	5692	55522	012361	012360	55524	G0226	G0336	15	Gillnet	K52-21MM	HERRING	2	2	0,150	0,150
1996	12-nov-96	SUND11	5696	55522	012361	012360	55524	G0226	G0336	15	Gillnet	K52-29MM	HERRING	1	1	0,150	0,150
1996	12-nov-96	SUND11	5694	55522	012361	012360	55524	G0226	G0336	15	Gillnet	K52-27MM	HERRING	8	8	1,100	1,100
1996	12-nov-96	SUND11	5693	55522	012361	012360	55524	G0226	G0336	15	Gillnet	K52-26MM	HERRING	3	3	0,400	0,400
1996	12-nov-96	SUND11	5691	55522	012361	012360	55524	G0226	G0336	15	Gillnet	K52-18,5MM	COD	2	2	0,075	0,075
1996	12-nov-96	SUND11	5701	55538	012352	012352	55539	G1905	G2005	11	Gillnet	K52-18,5MM	HERRING	7	7	0,550	0,550
1996	12-nov-96	SUND11	5706	55538	012352	012352	55539	G1905	G2005	11	Gillnet	K52-29MM	HERRING	4	4	0,650	0,650

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	12-nov-96	SUND11	5704	55538	012352	012352	55539	G1905	G2005	11	Gillnet	K52-27MM	HERRING	9	9	1,150	1,150
1996	12-nov-96	SUND11	5705	55538	012352	012352	55539	G1905	G2005	11	Gillnet	K52-28MM	HERRING	6	6	0,850	0,850
1996	12-nov-96	SUND11	5703	55538	012352	012352	55539	G1905	G2005	11	Gillnet	K52-26MM	HERRING	31	31	4,400	4,400
1996	12-nov-96	SUND11	5702	55538	012352	012352	55539	G1905	G2005	11	Gillnet	K52-21MM	HERRING	22	22	2,200	2,200
1996	12-nov-96	SUND11	5714	55565	012357	012358	55567	G2110	G2215	15	Gillnet	K52-27MM	WHITING	1	1	0,125	0,125
1996	12-nov-96	SUND11	5712	55565	012357	012358	55567	G2110	G2215	15	Gillnet	K52-21MM	WHITING	3	3	0,550	0,550
1996	12-nov-96	SUND11	5716	55565	012357	012358	55567	G2110	G2215	15	Gillnet	K52-29MM	HERRING	3	3	0,450	0,450
1996	12-nov-96	SUND11	5715	55565	012357	012358	55567	G2110	G2215	15	Gillnet	K52-28MM	HERRING	4	4	0,625	0,625
1996	12-nov-96	SUND11	5712	55565	012357	012358	55567	G2110	G2215	15	Gillnet	K52-21MM	HERRING	24	24	2,900	2,900
1996	12-nov-96	SUND11	5713	55565	012357	012358	55567	G2110	G2215	15	Gillnet	K52-26MM	HERRING	23	23	3,500	3,500
1996	12-nov-96	SUND11	5714	55565	012357	012358	55567	G2110	G2215	15	Gillnet	K52-27MM	HERRING	18	18	2,650	2,650
1996	12-nov-96	SUND11	5711	55565	012357	012358	55567	G2110	G2215	15	Gillnet	K52-18,5MM	HERRING	3	3	0,300	0,300
1996	12-nov-96	SUND11	5717	55565	012357	012358	55567	G2110	G2215	15	Gillnet	K52-34MM	HERRING	1	1	0,150	0,150
1996	12-nov-96	SUND11	5725	55561	012455	012453	55563	G2330	G0145	18	Gillnet	K52-28MM	WHITING	1	1	0,200	0,200
1996	12-nov-96	SUND11	5724	55561	012455	012453	55563	G2330	G0145	18	Gillnet	K52-27MM	HERRING	11	11	1,750	1,750
1996	12-nov-96	SUND11	5723	55561	012455	012453	55563	G2330	G0145	18	Gillnet	K52-26MM	HERRING	16	16	2,400	2,400
1996	12-nov-96	SUND11	5725	55561	012455	012453	55563	G2330	G0145	18	Gillnet	K52-28MM	HERRING	4	4	0,750	0,750
1996	12-nov-96	SUND11	5722	55561	012455	012453	55563	G2330	G0145	18	Gillnet	K52-21MM	HERRING	8	8	0,650	0,650
1996	12-nov-96	SUND11	5727	55561	012455	012453	55563	G2330	G0145	18	Gillnet	K52-34MM	HERRING	2	2	0,500	0,500
1996	12-nov-96	SUND11	5726	55561	012455	012453	55563	G2330	G0145	18	Gillnet	K52-29MM	HERRING	9	9	1,650	1,650
1996	12-nov-96	SUND11	5721	55561	012455	012453	55563	G2330	G0145	18	Gillnet	K52-18,5MM	HERRING	3	3	0,250	0,250
1996	13-nov-96	SUND11	5731	55592	012349	012352	55593	G1600	G1710	11	Gillnet	K52-18,5MM	SAITHE	1	1	0,400	0,400
1996	13-nov-96	SUND11	5734	55592	012349	012352	55593	G1600	G1710	11	Gillnet	K52-28MM	HERRING	2	2	0,325	0,325
1996	13-nov-96	SUND11	5735	55592	012349	012352	55593	G1600	G1710	11	Gillnet	K52-29MM	HERRING	2	2	0,350	0,350
1996	13-nov-96	SUND11	5731	55592	012349	012352	55593	G1600	G1710	11	Gillnet	K52-18,5MM	HERRING	1	1	0,075	0,075
1996	13-nov-96	SUND11	5732	55592	012349	012352	55593	G1600	G1710	11	Gillnet	K52-21MM	HERRING	15	15	1,600	1,600
1996	13-nov-96	SUND11	5733	55592	012349	012352	55593	G1600	G1710	11	Gillnet	K52-26MM	HERRING	1	1	0,125	0,125
1996	13-nov-96	SUND11	5735	55592	012349	012352	55593	G1600	G1710	11	Gillnet	K52-29MM	COD	1	1	1,750	1,750
1996	13-nov-96	SUND11	5731	55592	012349	012352	55593	G1600	G1710	11	Gillnet	K52-18,5MM	COD	3	3	0,150	0,150
1996	13-nov-96	SUND11	5744	56003	012363	012367	56004	G1750	G1845	26	Gillnet	K52-29MM	HERRING	1	1	0,175	0,175
1996	13-nov-96	SUND11	5742	56003	012363	012367	56004	G1750	G1845	26	Gillnet	K52-21MM	HERRING	5	5	0,650	0,650
1996	13-nov-96	SUND11	5741	56003	012363	012367	56004	G1750	G1845	26	Gillnet	K52-18,5MM	HERRING	1	1	0,125	0,125

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	13-nov-96	SUND11	5743	56003	012363	012367	56004	G1750	G1845	26	Gillnet	K52-26MM	HERRING	2	2	0,300	0,300
1996	13-nov-96	SUND11	5751	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-18,5MM	WHITING	1	1	0,200	0,200
1996	13-nov-96	SUND11	5752	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-21MM	WHITING	1	1	0,125	0,125
1996	13-nov-96	SUND11	5756	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-29MM	WHITING	1	1	0,125	0,125
1996	13-nov-96	SUND11	5757	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-34MM	SAITHE	1	1	0,275	0,275
1996	13-nov-96	SUND11	5757	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-34MM	HERRING	1	1	0,125	0,125
1996	13-nov-96	SUND11	5754	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-27MM	HERRING	19	19	2,600	2,600
1996	13-nov-96	SUND11	5756	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-29MM	HERRING	6	6	1,000	1,000
1996	13-nov-96	SUND11	5753	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-26MM	HERRING	23	23	3,100	3,100
1996	13-nov-96	SUND11	5755	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-28MM	HERRING	4	4	0,625	0,625
1996	13-nov-96	SUND11	5752	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-21MM	HERRING	14	14	1,275	1,275
1996	13-nov-96	SUND11	5751	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-18,5MM	HERRING	13	13	1,100	1,100
1996	13-nov-96	SUND11	5753	55591	012434	012436	55589	G2115	G2245	15	Gillnet	K52-26MM	COD	1	1	0,100	0,100
1996	14-nov-96	SUND11	5764	55531	012421	012418	55531	G0025	G0110	18	Gillnet	K52-27MM	HERRING	24	24	4,100	4,100
1996	14-nov-96	SUND11	5763	55531	012421	012418	55531	G0025	G0110	18	Gillnet	K52-26MM	HERRING	14	14	2,250	2,250
1996	14-nov-96	SUND11	5767	55531	012421	012418	55531	G0025	G0110	18	Gillnet	K52-34MM	HERRING	1	1	0,250	0,250
1996	14-nov-96	SUND11	5765	55531	012421	012418	55531	G0025	G0110	18	Gillnet	K52-28MM	HERRING	22	22	4,200	4,200
1996	14-nov-96	SUND11	5761	55531	012421	012418	55531	G0025	G0110	18	Gillnet	K52-18,5MM	HERRING	1	1	0,150	0,150
1996	14-nov-96	SUND11	5762	55531	012421	012418	55531	G0025	G0110	18	Gillnet	K52-21MM	HERRING	38	38	4,000	4,000
1996	14-nov-96	SUND11	5766	55531	012421	012418	55531	G0025	G0110	18	Gillnet	K52-29MM	HERRING	10	10	1,900	1,900
1996	14-nov-96	SUND11	5764	55531	012421	012418	55531	G0025	G0110	18	Gillnet	K52-27MM	COD	1	1	1,700	1,700
1996	14-nov-96	SUND11	5778	55508	012463	012461	55506	G0230	G0330	15	Gillnet	K52-60MM	HERRING	1	1	0,125	0,125
1996	14-nov-96	SUND11	5777	55508	012463	012461	55506	G0230	G0330	15	Gillnet	K52-34MM	HERRING	50	50	14,200	14,200
1996	14-nov-96	SUND11	5776	55508	012463	012461	55506	G0230	G0330	15	Gillnet	K52-29MM	HERRING	158	158	30,900	30,900
1996	14-nov-96	SUND11	5774	55508	012463	012461	55506	G0230	G0330	15	Gillnet	K52-27MM	HERRING	112	112	20,900	20,900
1996	14-nov-96	SUND11	5773	55508	012463	012461	55506	G0230	G0330	15	Gillnet	K52-26MM	HERRING	172	172	30,100	30,100
1996	14-nov-96	SUND11	5771	55508	012463	012461	55506	G0230	G0330	15	Gillnet	K52-18,5MM	HERRING	5	5	0,450	0,450
1996	14-nov-96	SUND11	5772	55508	012463	012461	55506	G0230	G0330	15	Gillnet	K52-21MM	HERRING	76	76	8,500	8,500
1996	14-nov-96	SUND11	5775	55508	012463	012461	55506	G0230	G0330	15	Gillnet	K52-28MM	HERRING	106	106	22,400	22,400
1996	14-nov-96	SUND11	5778	55508	012463	012461	55506	G0230	G0330	15	Gillnet	K52-60MM	COD	2	2	3,400	3,400
1996	14-nov-96	SUND11	5771	55508	012463	012461	55506	G0230	G0330	15	Gillnet	K52-18,5MM	COD	1	1	0,100	0,100
1996	14-nov-96	SUND11	5774	55508	012463	012461	55506	G0230	G0330	15	Gillnet	K52-27MM	COD	1	1	1,400	1,400

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	14-nov-96	SUND11	5781	55470	012369	012371	55472	G2030	G2230	7	Gillnet	K52-18,5MM	HERRING	9	9	0,825	0,825
1996	14-nov-96	SUND11	5786	55470	012369	012371	55472	G2030	G2230	7	Gillnet	K52-29MM	HERRING	28	28	4,825	4,825
1996	14-nov-96	SUND11	5785	55470	012369	012371	55472	G2030	G2230	7	Gillnet	K52-28MM	HERRING	13	13	2,400	2,400
1996	14-nov-96	SUND11	5783	55470	012369	012371	55472	G2030	G2230	7	Gillnet	K52-26MM	HERRING	4	4	0,525	0,525
1996	14-nov-96	SUND11	5787	55470	012369	012371	55472	G2030	G2230	7	Gillnet	K52-34MM	HERRING	3	3	0,850	0,850
1996	14-nov-96	SUND11	5784	55470	012369	012371	55472	G2030	G2230	7	Gillnet	K52-27MM	HERRING	14	14	2,150	2,150
1996	14-nov-96	SUND11	5782	55470	012369	012371	55472	G2030	G2230	7	Gillnet	K52-21MM	HERRING	33	33	3,125	3,125
1996	14-nov-96	SUND11	5782	55470	012369	012371	55472	G2030	G2230	7	Gillnet	K52-21MM	COD	2	2	0,125	0,125
1996	14-nov-96	SUND11	5781	55470	012369	012371	55472	G2030	G2230	7	Gillnet	K52-18,5MM	COD	1	1	0,050	0,050
1996	15-nov-96	SUND11	5795	55429	012549	012545	55430	G0010	G0230	15	Gillnet	K52-29MM	WHITING	1	1	0,300	0,300
1996	15-nov-96	SUND11	5791	55429	012549	012545	55430	G0010	G0230	15	Gillnet	K52-21MM	WHITING	1	1	0,100	0,100
1996	15-nov-96	SUND11	5794	55429	012549	012545	55430	G0010	G0230	15	Gillnet	K52-28MM	SAITHE	1	1	0,375	0,375
1996	15-nov-96	SUND11	5791	55429	012549	012545	55430	G0010	G0230	15	Gillnet	K52-21MM	HERRING	1	1	0,100	0,100
1996	15-nov-96	SUND11	5793	55429	012549	012545	55430	G0010	G0230	15	Gillnet	K52-27MM	HERRING	7	7	1,325	1,325
1996	15-nov-96	SUND11	5792	55429	012549	012545	55430	G0010	G0230	15	Gillnet	K52-26MM	HERRING	7	7	1,300	1,300
1996	15-nov-96	SUND11	5794	55429	012549	012545	55430	G0010	G0230	15	Gillnet	K52-28MM	HERRING	7	7	1,600	1,600
1996	15-nov-96	SUND11	5796	55429	012549	012545	55430	G0010	G0230	15	Gillnet	K52-34MM	HERRING	3	3	0,850	0,850
1996	15-nov-96	SUND11	5795	55429	012549	012545	55430	G0010	G0230	15	Gillnet	K52-29MM	HERRING	9	9	1,800	1,800
1996	15-nov-96	SUND11	5801	55416	012572	012567	55420	G1855	G2030	14	Gillnet	K52-18,5MM	HERRING	4	4	0,450	0,450
1996	15-nov-96	SUND11	5804	55416	012572	012567	55420	G1855	G2030	14	Gillnet	K52-27MM	HERRING	4	4	0,750	0,750
1996	15-nov-96	SUND11	5806	55416	012572	012567	55420	G1855	G2030	14	Gillnet	K52-29MM	HERRING	2	2	0,375	0,375
1996	15-nov-96	SUND11	5805	55416	012572	012567	55420	G1855	G2030	14	Gillnet	K52-28MM	HERRING	3	3	0,575	0,575
1996	15-nov-96	SUND11	5803	55416	012572	012567	55420	G1855	G2030	14	Gillnet	K52-26MM	HERRING	5	5	0,900	0,900
1996	15-nov-96	SUND11	5802	55416	012572	012567	55420	G1855	G2030	14	Gillnet	K52-21MM	HERRING	7	7	0,625	0,625
1996	15-nov-96	SUND11	5812	55393	012506	012504	55395	G2130	G2245	12	Gillnet	K52-26MM	WHITING	1	1	0,100	0,100
1996	15-nov-96	SUND11	5813	55393	012506	012504	55395	G2130	G2245	12	Gillnet	K52-27MM	HERRING	4	4	0,700	0,700
1996	15-nov-96	SUND11	5811	55393	012506	012504	55395	G2130	G2245	12	Gillnet	K52-21MM	HERRING	5	5	0,500	0,500
1996	15-nov-96	SUND11	5812	55393	012506	012504	55395	G2130	G2245	12	Gillnet	K52-26MM	HERRING	7	7	1,150	1,150
1996	15-nov-96	SUND11	5815	55393	012506	012504	55395	G2130	G2245	12	Gillnet	K52-29MM	HERRING	15	15	3,000	3,000
1996	15-nov-96	SUND11	5814	55393	012506	012504	55395	G2130	G2245	12	Gillnet	K52-28MM	HERRING	6	6	1,050	1,050
1996	15-nov-96	SUND11	5816	55393	012506	012504	55395	G2130	G2245	12	Gillnet	K52-34MM	HERRING	8	8	2,000	2,000
1996	15-nov-96	SUND11	5813	55393	012506	012504	55395	G2130	G2245	12	Gillnet	K52-27MM	COD	1	1	1,075	1,075

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	15-nov-96	SUND11	5811	55393	012506	012504	55395	G2130	G2245	12	Gillnet	K52-21MM	COD	1	1	1,050	1,050
1996	15-nov-96	SUND11	5812	55393	012506	012504	55395	G2130	G2245	12	Gillnet	K52-26MM	COD	1	1	0,075	0,075
1996	15-nov-96	SUND11	5816	55393	012506	012504	55395	G2130	G2245	12	Gillnet	K52-34MM	COD	1	1	1,000	1,000
1996	15-nov-96	SUND11	5824	55380	012563	012564	55382	G2355	G0245	17	Gillnet	K52-27MM	HERRING	6	6	1,000	1,000
1996	15-nov-96	SUND11	5823	55380	012563	012564	55382	G2355	G0245	17	Gillnet	K52-26MM	HERRING	11	11	1,550	1,550
1996	15-nov-96	SUND11	5822	55380	012563	012564	55382	G2355	G0245	17	Gillnet	K52-21MM	HERRING	17	17	1,525	1,525
1996	15-nov-96	SUND11	5821	55380	012563	012564	55382	G2355	G0245	17	Gillnet	K52-18,5MM	HERRING	10	10	0,700	0,700
1996	15-nov-96	SUND11	5826	55380	012563	012564	55382	G2355	G0245	17	Gillnet	K52-29MM	HERRING	6	6	1,100	1,100
1996	15-nov-96	SUND11	5827	55380	012563	012564	55382	G2355	G0245	17	Gillnet	K52-34MM	HERRING	3	3	0,850	0,850
1996	15-nov-96	SUND11	5825	55380	012563	012564	55382	G2355	G0245	17	Gillnet	K52-28MM	HERRING	6	6	1,150	1,150
1996	15-nov-96	SUND11	5828	55380	012563	012564	55382	G2355	G0245	17	Gillnet	K52-60MM	COD	1	1	1,175	1,175
1996	16-nov-96	SUND11	5831	55423	012495	012497	55425	G1925	G2035	9	Gillnet	K52-18,5MM	HERRING	6	6	0,700	0,700
1996	16-nov-96	SUND11	5837	55423	012495	012497	55425	G1925	G2035	9	Gillnet	K52-34MM	HERRING	4	4	0,800	0,800
1996	16-nov-96	SUND11	5835	55423	012495	012497	55425	G1925	G2035	9	Gillnet	K52-28MM	HERRING	5	5	0,900	0,900
1996	16-nov-96	SUND11	5836	55423	012495	012497	55425	G1925	G2035	9	Gillnet	K52-29MM	HERRING	24	24	4,400	4,400
1996	16-nov-96	SUND11	5834	55423	012495	012497	55425	G1925	G2035	9	Gillnet	K52-27MM	HERRING	6	6	0,800	0,800
1996	16-nov-96	SUND11	5833	55423	012495	012497	55425	G1925	G2035	9	Gillnet	K52-26MM	HERRING	8	8	1,300	1,300
1996	16-nov-96	SUND11	5832	55423	012495	012497	55425	G1925	G2035	9	Gillnet	K52-21MM	HERRING	1	1	0,100	0,100
1996	16-nov-96	SUND11	5837	55423	012495	012497	55425	G1925	G2035	9	Gillnet	K52-34MM	COD	4	1	2,250	2,250
1996	16-nov-96	SUND11	5836	55423	012495	012497	55425	G1925	G2035	9	Gillnet	K52-29MM	COD	1	1	1,500	1,500
1996	16-nov-96	SUND11	5843	55373	012568	012568	55375	G2200	G2345	15	Gillnet	K52-26MM	HERRING	8	8	1,600	1,600
1996	16-nov-96	SUND11	5841	55373	012568	012568	55375	G2200	G2345	15	Gillnet	K52-18,5MM	HERRING	1	1	0,075	0,075
1996	16-nov-96	SUND11	5842	55373	012568	012568	55375	G2200	G2345	15	Gillnet	K52-21MM	HERRING	1	1	0,075	0,075
1996	16-nov-96	SUND11	5847	55373	012568	012568	55375	G2200	G2345	15	Gillnet	K52-34MM	HERRING	9	9	2,500	2,500
1996	16-nov-96	SUND11	5844	55373	012568	012568	55375	G2200	G2345	15	Gillnet	K52-27MM	HERRING	27	27	5,700	5,700
1996	16-nov-96	SUND11	5846	55373	012568	012568	55375	G2200	G2345	15	Gillnet	K52-29MM	HERRING	23	23	5,300	5,300
1996	16-nov-96	SUND11	5845	55373	012568	012568	55375	G2200	G2345	15	Gillnet	K52-28MM	HERRING	21	21	4,600	4,600
1996	17-nov-96	SUND11	5854	55434	012435	012437	55436	G0140	G0255	9	Gillnet	K52-27MM	HERRING	2	2	0,250	0,250
1996	17-nov-96	SUND11	5853	55434	012435	012437	55436	G0140	G0255	9	Gillnet	K52-26MM	HERRING	5	5	0,700	0,700
1996	17-nov-96	SUND11	5856	55434	012435	012437	55436	G0140	G0255	9	Gillnet	K52-29MM	HERRING	2	2	0,400	0,400
1996	17-nov-96	SUND11	5855	55434	012435	012437	55436	G0140	G0255	9	Gillnet	K52-28MM	HERRING	1	1	0,200	0,200
1996	17-nov-96	SUND11	5852	55434	012435	012437	55436	G0140	G0255	9	Gillnet	K52-21MM	HERRING	2	2	0,200	0,200

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1996	17-nov-96	SUND11	5853	55434	012435	012437	55436	G0140	G0255	9	Gillnet	K52-26MM	COD	1	1	0,800	0,800
1996	17-nov-96	SUND11	5851	55434	012435	012437	55436	G0140	G0255	9	Gillnet	K52-18,5MM	COD	2	2	0,100	0,100
1997	04-mar-97	SUND03	1116	56003	012360	012362	56001	G1730	G1830	11	Gillnet	K52-29MM	HERRING	59	59	10,000	10,000
1997	04-mar-97	SUND03	1111	56003	012360	012362	56001	G1730	G1830	11	Gillnet	K52-18,5MM	HERRING	1	1	0,150	0,150
1997	04-mar-97	SUND03	1113	56003	012360	012362	56001	G1730	G1830	11	Gillnet	K52-26MM	HERRING	47	47	6,400	6,400
1997	04-mar-97	SUND03	1112	56003	012360	012362	56001	G1730	G1830	11	Gillnet	K52-21MM	HERRING	24	24	2,600	2,600
1997	04-mar-97	SUND03	1115	56003	012360	012362	56001	G1730	G1830	11	Gillnet	K52-28MM	HERRING	16	16	2,500	2,500
1997	04-mar-97	SUND03	1117	56003	012360	012362	56001	G1730	G1830	11	Gillnet	K52-34MM	HERRING	3	3	0,750	0,750
1997	04-mar-97	SUND03	1114	56003	012360	012362	56001	G1730	G1830	11	Gillnet	K52-27MM	HERRING	21	21	3,100	3,100
1997	04-mar-97	SUND03	1114	56003	012360	012362	56001	G1730	G1830	11	Gillnet	K52-27MM	FLOUNDER	1	1	0,200	0,200
1997	04-mar-97	SUND03	1115	56003	012360	012362	56001	G1730	G1830	11	Gillnet	K52-28MM	COD	1	1	0,200	0,200
1997	04-mar-97	SUND03	2226	55592	012355	012358	55591	G2100	G2205	14	Gillnet	K52-29MM	F.B. ROCKLING	1	1	0,250	0,250
1997	04-mar-97	SUND03	2223	55592	012355	012358	55591	G2100	G2205	14	Gillnet	K52-26MM	HERRING	4	4	0,500	0,500
1997	04-mar-97	SUND03	2225	55592	012355	012358	55591	G2100	G2205	14	Gillnet	K52-28MM	HERRING	1	1	0,150	0,150
1997	04-mar-97	SUND03	2222	55592	012355	012358	55591	G2100	G2205	14	Gillnet	K52-21MM	HERRING	3	3	0,250	0,250
1997	04-mar-97	SUND03	2221	55592	012355	012358	55591	G2100	G2205	14	Gillnet	K52-18,5MM	HERRING	1	1	0,125	0,125
1997	04-mar-97	SUND03	2224	55592	012355	012358	55591	G2100	G2205	14	Gillnet	K52-27MM	HERRING	7	7	1,000	1,000
1997	05-mar-97	SUND03	5551	55569	012344	012345	55571	G2055	G2125	9	Gillnet	K52-21MM	HERRING	1	1	0,150	0,150
1997	05-mar-97	SUND03	6663	55528	012340	012340	55530	G2240	G2340	8	Gillnet	K52-27MM	HERRING	7	7	1,100	1,100
1997	05-mar-97	SUND03	6662	55528	012340	012340	55530	G2240	G2340	8	Gillnet	K52-26MM	HERRING	10	10	1,300	1,300
1997	05-mar-97	SUND03	6661	55528	012340	012340	55530	G2240	G2340	8	Gillnet	K52-21MM	HERRING	1	1	0,100	0,100
1997	05-mar-97	SUND03	6664	55528	012340	012340	55530	G2240	G2340	8	Gillnet	K52-28MM	HERRING	1	1	0,120	0,120
1997	05-mar-97	SUND03	6665	55528	012340	012340	55530	G2240	G2340	8	Gillnet	K52-29MM	HERRING	2	2	0,400	0,400
1997	05-mar-97	SUND03	6665	55528	012340	012340	55530	G2240	G2340	8	Gillnet	K52-29MM	COD	1	1	0,100	0,100
1997	05-mar-97	SUND03	6666	55528	012340	012340	55530	G2240	G2340	8	Gillnet	K52-34MM	COD	1	1	0,200	0,200
1997	05-mar-97	SUND03	6663	55528	012340	012340	55530	G2240	G2340	8	Gillnet	K52-27MM	COD	4	4	0,500	0,500
1997	06-mar-97	SUND03	7772	55508	012351	012351	55510	G0105	G0125	9	Gillnet	K52-26MM	COD	2	2	0,300	0,300
1997	06-mar-97	SUND03	7771	55508	012351	012351	55510	G0105	G0125	9	Gillnet	K52-21MM	COD	2	2	0,125	0,125
1997	06-mar-97	SUND03	8883	55537	012411	012413	55536	G1720	G1820	19	Gillnet	K52-26MM	HERRING	5	5	0,663	0,663
1997	06-mar-97	SUND03	8882	55537	012411	012413	55536	G1720	G1820	19	Gillnet	K52-21MM	HERRING	3	3	0,324	0,324
1997	06-mar-97	SUND03	8881	55537	012411	012413	55536	G1720	G1820	19	Gillnet	K52-18,5MM	HERRING	1	1	0,090	0,090
1997	06-mar-97	SUND03	9992	55505	012463	012462	55503	G2120	G2330	13	Gillnet	K52-28MM	SAITHE	1	1	0,570	0,570

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1997	06-mar-97	SUND03	9991	55505	012463	012462	55503	G2120	G2330	13	Gillnet	K52-27MM	HERRING	2	2	0,327	0,327
1997	06-mar-97	SUND03	9992	55505	012463	012462	55503	G2120	G2330	13	Gillnet	K52-28MM	HERRING	4	4	0,745	0,745
1997	06-mar-97	SUND03	9993	55505	012463	012462	55503	G2120	G2330	13	Gillnet	K52-29MM	HERRING	2	2	0,345	0,345
1997	06-mar-97	SUND03	9991	55505	012463	012462	55503	G2120	G2330	13	Gillnet	K52-27MM	COD	1	1	0,725	0,725
1997	06-mar-97	SUND03	9992	55505	012463	012462	55503	G2120	G2330	13	Gillnet	K52-28MM	COD	1	1	0,360	0,360
1997	06-mar-97	SUND03	9994	55505	012463	012462	55503	G2120	G2330	13	Gillnet	K52-60MM	COD	1	1	1,140	1,140
1997	07-mar-97	SUND03	1004	55495	012473	012490	55497	G0005	G0145	18	Gillnet	K52-29MM	HERRING	5	5	0,874	0,874
1997	07-mar-97	SUND03	1001	55495	012473	012490	55497	G0005	G0145	18	Gillnet	K52-18,5MM	HERRING	2	2	0,161	0,161
1997	07-mar-97	SUND03	1003	55495	012473	012490	55497	G0005	G0145	18	Gillnet	K52-27MM	HERRING	4	4	0,616	0,616
1997	07-mar-97	SUND03	1002	55495	012473	012490	55497	G0005	G0145	18	Gillnet	K52-26MM	HERRING	9	9	1,340	1,340
1997	07-mar-97	SUND03	1006	55495	012473	012490	55497	G0005	G0145	18	Gillnet	K52-60MM	FLOUNDER	1	1	0,719	0,719
1997	07-mar-97	SUND03	1005	55495	012473	012490	55497	G0005	G0145	18	Gillnet	K52-34MM	COD	2	2	2,500	2,500
1997	07-mar-97	SUND03	1006	55495	012473	012490	55497	G0005	G0145	18	Gillnet	K52-60MM	COD	2	2	2,800	2,800
1997	07-mar-97	SUND03	1101	55497	012471	012463	55500	G0230	G0330	20	Gillnet	K52-18,5MM	HERRING	4	4	0,225	0,225
1997	07-mar-97	SUND03	1104	55497	012471	012463	55500	G0230	G0330	20	Gillnet	K52-27MM	HERRING	22	22	3,200	3,200
1997	07-mar-97	SUND03	1103	55497	012471	012463	55500	G0230	G0330	20	Gillnet	K52-26MM	HERRING	21	21	2,800	2,800
1997	07-mar-97	SUND03	1107	55497	012471	012463	55500	G0230	G0330	20	Gillnet	K52-34MM	HERRING	1	1	0,110	0,110
1997	07-mar-97	SUND03	1102	55497	012471	012463	55500	G0230	G0330	20	Gillnet	K52-21MM	HERRING	22	22	2,100	2,100
1997	07-mar-97	SUND03	1106	55497	012471	012463	55500	G0230	G0330	20	Gillnet	K52-29MM	HERRING	10	10	1,900	1,900
1997	07-mar-97	SUND03	1105	55497	012471	012463	55500	G0230	G0330	20	Gillnet	K52-28MM	HERRING	17	17	2,800	2,800
1997	07-mar-97	SUND03	1201	55441	012473	012473	55441	G1955	G2055	11	Gillnet	K52-28MM	HERRING	1	1	0,200	0,200
1997	08-mar-97	SUND03	1302	55474	012387	012387	55474	G0120	G0220	7	Gillnet	K52-26MM	HERRING	1	1	0,150	0,150
1997	08-mar-97	SUND03	1303	55474	012387	012387	55474	G0120	G0220	7	Gillnet	K52-27MM	COD	3	3	0,250	0,250
1997	08-mar-97	SUND03	1302	55474	012387	012387	55474	G0120	G0220	7	Gillnet	K52-26MM	COD	6	6	0,600	0,600
1997	08-mar-97	SUND03	1301	55474	012387	012387	55474	G0120	G0220	7	Gillnet	K52-21MM	COD	2	2	0,200	0,200
1997	08-mar-97	SUND03	1406	55484	012473	012473	55484	G0450	G0550	21	Gillnet	K52-29MM	HERRING	8	8	1,800	1,800
1997	08-mar-97	SUND03	1403	55484	012473	012473	55484	G0450	G0550	21	Gillnet	K52-26MM	HERRING	1	1	0,100	0,100
1997	08-mar-97	SUND03	1404	55484	012473	012473	55484	G0450	G0550	21	Gillnet	K52-27MM	HERRING	11	11	2,600	2,600
1997	08-mar-97	SUND03	1402	55484	012473	012473	55484	G0450	G0550	21	Gillnet	K52-21MM	HERRING	2	2	0,250	0,250
1997	08-mar-97	SUND03	1401	55484	012473	012473	55484	G0450	G0550	21	Gillnet	K52-18,5MM	HERRING	1	1	0,200	0,200
1997	08-mar-97	SUND03	1405	55484	012473	012473	55484	G0450	G0550	21	Gillnet	K52-28MM	HERRING	16	16	3,000	3,000
1997	08-mar-97	SUND03	1407	55484	012473	012473	55484	G0450	G0550	21	Gillnet	K52-34MM	HERRING	1	1	0,200	0,200

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1997	08-mar-97	SUND03	1407	55484	012473	012473	55484	G0450	G0550	21	Gillnet	K52-34MM	COD	1	1	1,400	1,400
1997	08-mar-97	SUND03	1501	55493	012385	012385	55493	G1745	G1945	10	Gillnet	K52-28MM	COD	1	1	1,000	1,000
1997	08-mar-97	SUND03	1601	55502	012408	012408	55502	G2250	G2350	22	Gillnet	K52-27MM	HERRING	2	2	0,200	0,200
1997	08-mar-97	SUND03	1602	55502	012408	012408	55502	G2250	G2350	22	Gillnet	K52-29MM	HERRING	1	1	0,200	0,200
1997	08-mar-97	SUND03	1603	55502	012408	012408	55502	G2250	G2350	22	Gillnet	K52-60MM	COD	2	2	3,500	3,500
1997	09-mar-97	SUND03	1704	55524	012353	012353	55524	G0140	G0240	11	Gillnet	K52-28MM	HERRING	1	1	0,187	0,187
1997	09-mar-97	SUND03	1703	55524	012353	012353	55524	G0140	G0240	11	Gillnet	K52-27MM	HERRING	4	4	0,693	0,693
1997	09-mar-97	SUND03	1701	55524	012353	012353	55524	G0140	G0240	11	Gillnet	K52-18,5MM	COD	4	4	0,209	0,209
1997	09-mar-97	SUND03	1703	55524	012353	012353	55524	G0140	G0240	11	Gillnet	K52-27MM	COD	3	3	0,299	0,299
1997	09-mar-97	SUND03	1702	55524	012353	012353	55524	G0140	G0240	11	Gillnet	K52-21MM	COD	1	1	0,064	0,064
1997	09-mar-97	SUND03	1704	55524	012353	012353	55524	G0140	G0240	11	Gillnet	K52-28MM	COD	2	2	0,291	0,291
1997	07-apr-97	SUND04	1805	55418	012560	012557	55420	G1830	G2030	15	Gillnet	K52-28MM	HERRING	1	1	0,225	0,225
1997	07-apr-97	SUND04	1804	55418	012560	012557	55420	G1830	G2030	15	Gillnet	K52-27MM	HERRING	2	2	0,400	0,400
1997	07-apr-97	SUND04	1803	55418	012560	012557	55420	G1830	G2030	15	Gillnet	K52-26MM	HERRING	1	1	0,125	0,125
1997	07-apr-97	SUND04	1806	55418	012560	012557	55420	G1830	G2030	15	Gillnet	K52-29MM	HERRING	2	2	0,400	0,400
1997	07-apr-97	SUND04	1802	55418	012560	012557	55420	G1830	G2030	15	Gillnet	K52-21MM	HERRING	1	1	0,080	0,080
1997	07-apr-97	SUND04	1801	55418	012560	012557	55420	G1830	G2030	15	Gillnet	K52-18,5MM	HERRING	1	1	0,075	0,075
1997	07-apr-97	SUND04	1906	55386	012520	012518	55388	G2215	G0015	12	Gillnet	K52-29MM	WHITING	1	1	0,500	0,500
1997	07-apr-97	SUND04	1906	55386	012520	012518	55388	G2215	G0015	12	Gillnet	K52-29MM	HERRING	4	4	0,900	0,900
1997	07-apr-97	SUND04	1905	55386	012520	012518	55388	G2215	G0015	12	Gillnet	K52-28MM	HERRING	4	4	0,700	0,700
1997	07-apr-97	SUND04	1903	55386	012520	012518	55388	G2215	G0015	12	Gillnet	K52-26MM	HERRING	17	17	2,400	2,400
1997	07-apr-97	SUND04	1902	55386	012520	012518	55388	G2215	G0015	12	Gillnet	K52-21MM	HERRING	20	20	1,600	1,600
1997	07-apr-97	SUND04	1901	55386	012520	012518	55388	G2215	G0015	12	Gillnet	K52-18,5MM	HERRING	20	20	1,300	1,300
1997	07-apr-97	SUND04	1904	55386	012520	012518	55388	G2215	G0015	12	Gillnet	K52-27MM	HERRING	12	12	1,500	1,500
1997	07-apr-97	SUND04	1906	55386	012520	012518	55388	G2215	G0015	12	Gillnet	K52-29MM	COD	1	1	0,900	0,900
1997	07-apr-97	SUND04	1904	55386	012520	012518	55388	G2215	G0015	12	Gillnet	K52-27MM	COD	1	1	0,100	0,100
1997	08-apr-97	SUND04	2002	55443	012529	012528	55445	G0120	G0345	19	Gillnet	K52-29MM	WHITING	1	1	0,250	0,250
1997	08-apr-97	SUND04	2003	55443	012529	012528	55445	G0120	G0345	19	Gillnet	K52-34MM	SAITHE	1	1	0,500	0,500
1997	08-apr-97	SUND04	2001	55443	012529	012528	55445	G0120	G0345	19	Gillnet	K52-28MM	HERRING	3	3	0,500	0,500
1997	08-apr-97	SUND04	2002	55443	012529	012528	55445	G0120	G0345	19	Gillnet	K52-29MM	HERRING	1	1	0,200	0,200
1997	08-apr-97	SUND04	2106	55566	012364	012365	55569	G1755	G1900	15	Gillnet	K52-29MM	HERRING	13	13	2,400	2,400
1997	08-apr-97	SUND04	2104	55566	012364	012365	55569	G1755	G1900	15	Gillnet	K52-27MM	HERRING	8	8	1,200	1,200

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1997	08-apr-97	SUND04	2103	55566	012364	012365	55569	G1755	G1900	15	Gillnet	K52-26MM	HERRING	15	15	2,200	2,200
1997	08-apr-97	SUND04	2105	55566	012364	012365	55569	G1755	G1900	15	Gillnet	K52-28MM	HERRING	7	7	1,200	1,200
1997	08-apr-97	SUND04	2102	55566	012364	012365	55569	G1755	G1900	15	Gillnet	K52-21MM	HERRING	14	14	1,400	1,400
1997	08-apr-97	SUND04	2101	55566	012364	012365	55569	G1755	G1900	15	Gillnet	K52-18,5MM	HERRING	4	4	0,400	0,400
1997	08-apr-97	SUND04	2105	55566	012364	012365	55569	G1755	G1900	15	Gillnet	K52-28MM	COD	1	1	0,200	0,200
1997	08-apr-97	SUND04	2103	55566	012364	012365	55569	G1755	G1900	15	Gillnet	K52-26MM	COD	2	2	1,400	1,400
1997	08-apr-97	SUND04	2202	55522	012344	012343	55525	G2015	G2100	10	Gillnet	K52-21MM	HERRING	19	19	1,800	1,800
1997	08-apr-97	SUND04	2201	55522	012344	012343	55525	G2015	G2100	10	Gillnet	K52-18,5MM	HERRING	5	5	0,400	0,400
1997	08-apr-97	SUND04	2203	55522	012344	012343	55525	G2015	G2100	10	Gillnet	K52-26MM	HERRING	15	15	2,000	2,000
1997	08-apr-97	SUND04	2204	55522	012344	012343	55525	G2015	G2100	10	Gillnet	K52-27MM	COD	1	1	0,200	0,200
1997	09-apr-97	SUND04	2303	55508	012459	012458	55510	G0025	G0140	13	Gillnet	K52-27MM	HERRING	2	2	0,400	0,400
1997	09-apr-97	SUND04	2301	55508	012459	012458	55510	G0025	G0140	13	Gillnet	K52-18,5MM	HERRING	1	1	0,075	0,075
1997	09-apr-97	SUND04	2302	55508	012459	012458	55510	G0025	G0140	13	Gillnet	K52-21MM	HERRING	2	2	0,150	0,150
1997	09-apr-97	SUND04	2304	55508	012459	012458	55510	G0025	G0140	13	Gillnet	K52-28MM	HERRING	3	3	0,500	0,500
1997	09-apr-97	SUND04	2305	55508	012459	012458	55510	G0025	G0140	13	Gillnet	K52-29MM	HERRING	3	3	0,600	0,600
1997	09-apr-97	SUND04	2302	55508	012459	012458	55510	G0025	G0140	13	Gillnet	K52-21MM	COD	1	1	0,075	0,075
1997	09-apr-97	SUND04	2303	55508	012459	012458	55510	G0025	G0140	13	Gillnet	K52-27MM	COD	2	2	0,350	0,350
1997	09-apr-97	SUND04	2402	55557	012448	012446	55559	G0255	G0400	18	Gillnet	K52-21MM	SPRAT	1	1	0,015	0,015
1997	09-apr-97	SUND04	2402	55557	012448	012446	55559	G0255	G0400	18	Gillnet	K52-21MM	WHITING	1	1	0,075	0,075
1997	09-apr-97	SUND04	2404	55557	012448	012446	55559	G0255	G0400	18	Gillnet	K52-27MM	HERRING	35	35	6,500	6,500
1997	09-apr-97	SUND04	2401	55557	012448	012446	55559	G0255	G0400	18	Gillnet	K52-18,5MM	HERRING	56	56	3,500	3,500
1997	09-apr-97	SUND04	2801	55557	012448	012446	55559	G0255	G0400	18	Gillnet	HAVKAT	HERRING	4	4	0,400	0,400
1997	09-apr-97	SUND04	2407	55557	012448	012446	55559	G0255	G0400	18	Gillnet	K52-34MM	HERRING	2	2	0,600	0,600
1997	09-apr-97	SUND04	2406	55557	012448	012446	55559	G0255	G0400	18	Gillnet	K52-29MM	HERRING	44	44	9,200	9,200
1997	09-apr-97	SUND04	2403	55557	012448	012446	55559	G0255	G0400	18	Gillnet	K52-26MM	HERRING	77	77	13,200	13,200
1997	09-apr-97	SUND04	2405	55557	012448	012446	55559	G0255	G0400	18	Gillnet	K52-28MM	HERRING	16	16	3,100	3,100
1997	09-apr-97	SUND04	2402	55557	012448	012446	55559	G0255	G0400	18	Gillnet	K52-21MM	HERRING	102	102	12,700	12,700
1997	09-apr-97	SUND04	2404	55557	012448	012446	55559	G0255	G0400	18	Gillnet	K52-27MM	COD	1	1	0,075	0,075
1997	09-apr-97	SUND04	2403	55557	012448	012446	55559	G0255	G0400	18	Gillnet	K52-26MM	COD	1	1	2,800	2,800
1997	09-apr-97	SUND04	2502	55535	012403	012400	55535	G1820	G1930	20	Gillnet	K52-21MM	SPRAT	1	1	0,020	0,020
1997	09-apr-97	SUND04	2501	55535	012403	012400	55535	G1820	G1930	20	Gillnet	K52-18,5MM	HERRING	2	2	0,150	0,150
1997	09-apr-97	SUND04	2503	55535	012403	012400	55535	G1820	G1930	20	Gillnet	K52-26MM	HERRING	5	5	0,900	0,900

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1997	09-apr-97	SUND04	2502	55535	012403	012400	55535	G1820	G1930	20	Gillnet	K52-21MM	HERRING	10	10	1,000	1,000
1997	09-apr-97	SUND04	2504	55535	012403	012400	55535	G1820	G1930	20	Gillnet	K52-27MM	HERRING	13	13	2,400	2,400
1997	09-apr-97	SUND04	2507	55535	012403	012400	55535	G1820	G1930	20	Gillnet	K52-34MM	HERRING	2	2	0,450	0,450
1997	09-apr-97	SUND04	2506	55535	012403	012400	55535	G1820	G1930	20	Gillnet	K52-29MM	HERRING	3	3	0,700	0,700
1997	09-apr-97	SUND04	2505	55535	012403	012400	55535	G1820	G1930	20	Gillnet	K52-28MM	HERRING	5	5	1,000	1,000
1997	09-apr-97	SUND04	2501	55535	012403	012400	55535	G1820	G1930	20	Gillnet	K52-18,5MM	COD	1	1	0,030	0,030
1997	09-apr-97	SUND04	2504	55535	012403	012400	55535	G1820	G1930	20	Gillnet	K52-27MM	COD	1	1	0,100	0,100
1997	09-apr-97	SUND04	2502	55535	012403	012400	55535	G1820	G1930	20	Gillnet	K52-21MM	COD	1	1	3,100	3,100
1997	09-apr-97	SUND04	2603	55540	012459	012459	55542	G2210	G2315	21	Gillnet	K52-28MM	HERRING	1	1	0,250	0,250
1997	09-apr-97	SUND04	2604	55540	012459	012459	55542	G2210	G2315	21	Gillnet	K52-29MM	HERRING	4	4	0,900	0,900
1997	09-apr-97	SUND04	2602	55540	012459	012459	55542	G2210	G2315	21	Gillnet	K52-26MM	HERRING	1	1	0,100	0,100
1997	09-apr-97	SUND04	2601	55540	012459	012459	55542	G2210	G2315	21	Gillnet	K52-21MM	HERRING	1	1	0,200	0,200
1997	10-apr-97	SUND04	2702	55498	012374	012377	55496	G0150	G0305	12	Gillnet	K52-21MM	HERRING	70	70	7,100	7,100
1997	10-apr-97	SUND04	2703	55498	012374	012377	55496	G0150	G0305	12	Gillnet	K52-26MM	HERRING	87	87	12,400	12,400
1997	10-apr-97	SUND04	2706	55498	012374	012377	55496	G0150	G0305	12	Gillnet	K52-29MM	HERRING	22	22	4,400	4,400
1997	10-apr-97	SUND04	2707	55498	012374	012377	55496	G0150	G0305	12	Gillnet	K52-34MM	HERRING	3	3	0,500	0,500
1997	10-apr-97	SUND04	2701	55498	012374	012377	55496	G0150	G0305	12	Gillnet	K52-18,5MM	HERRING	34	34	3,000	3,000
1997	10-apr-97	SUND04	2705	55498	012374	012377	55496	G0150	G0305	12	Gillnet	K52-28MM	HERRING	28	28	5,400	5,400
1997	10-apr-97	SUND04	2704	55498	012374	012377	55496	G0150	G0305	12	Gillnet	K52-27MM	HERRING	32	32	5,000	5,000
1997	10-apr-97	SUND04	2702	55498	012374	012377	55496	G0150	G0305	12	Gillnet	K52-21MM	COD	1	1	1,000	1,000
1997	10-apr-97	SUND04	2705	55498	012374	012377	55496	G0150	G0305	12	Gillnet	K52-28MM	COD	1	1	1,800	1,800
1997	10-apr-97	SUND04	2704	55498	012374	012377	55496	G0150	G0305	12	Gillnet	K52-27MM	COD	3	3	0,900	0,900
1997	26-sep-97	SOLE09	35	55446	012536	55462	012520	G1642	G1704		Trawl		SPRAT	362	1967	1,941	10,545
1997	26-sep-97	SOLE09	35	55446	012536	55462	012520	G1642	G1704		Trawl		H. MACKEREL	2	4	0,003	0,006
1997	26-sep-97	SOLE09	35	55446	012536	55462	012520	G1642	G1704		Trawl		MACKEREL	1	2	0,017	0,036
1997	26-sep-97	SOLE09	35	55446	012536	55462	012520	G1642	G1704		Trawl		HERRING	561	1202	74,316	159,249
1997	26-sep-97	SOLE09	35	55446	012536	55462	012520	G1642	G1704		Trawl		COD	8	17	13,380	28,671
1997	26-sep-97	SOLE09	36	55523	012455	55540	012454	G1812	G1840		Trawl		SPRAT	1	16	0,026	0,415
1997	26-sep-97	SOLE09	36	55523	012455	55540	012454	G1812	G1840		Trawl		HERRING	337	5775	60,573	1038,046
1997	26-sep-97	SOLE09	36	55523	012455	55540	012454	G1812	G1840		Trawl		COD	22	51	50,000	115,385
1997	26-sep-97	SOLE09	37	55566	012416	55574	012413	G1929	G1941		Trawl		SPRAT	23	668	0,482	14,000
1997	26-sep-97	SOLE09	37	55566	012416	55574	012413	G1929	G1941		Trawl		HERRING	401	11630	60,717	1761,000

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1997	26-sep-97	SOLE09	37	55566	012416	55574	012413	G1929	G1941		Trawl		COD	19	95	45,000	225,000
1997	26-sep-97	SOLE09	38	56095	012293	56117	012275	G2134	G2205		Trawl		SPRAT	23	172	0,405	3,021
1997	26-sep-97	SOLE09	38	56095	012293	56117	012275	G2134	G2205		Trawl		GR. WEEVER	2	4	0,270	0,559
1997	26-sep-97	SOLE09	38	56095	012293	56117	012275	G2134	G2205		Trawl		H. MACKEREL	1	2	0,020	0,041
1997	26-sep-97	SOLE09	38	56095	012293	56117	012275	G2134	G2205		Trawl		MACKEREL	1	8	0,026	0,207
1997	26-sep-97	SOLE09	38	56095	012293	56117	012275	G2134	G2205		Trawl		HERRING	338	6613	17,767	347,628
1997	26-sep-97	SOLE09	38	56095	012293	56117	012275	G2134	G2205		Trawl		COD	4	8	5,125	10,603
1997	30-sep-97	SOLE09	48	55586	012417	55565	012431	G2117	G2147		Trawl		SPRAT	10	155	0,190	2,938
1997	30-sep-97	SOLE09	48	55586	012417	55565	012431	G2117	G2147		Trawl		KNH	1	2	0,051	0,102
1997	30-sep-97	SOLE09	48	55586	012417	55565	012431	G2117	G2147		Trawl		HERRING	624	9586	60,765	933,520
1997	30-sep-97	SOLE09	48	55586	012417	55565	012431	G2117	G2147		Trawl		COD	22	44	31,730	63,460
1997	11-nov-97	SUND11	6165	55497	012470	012468	55498	G0010	G0100	17	Gillnet	K52-28MM	WHITING	1	1	0,150	0,150
1997	11-nov-97	SUND11	6165	55497	012470	012468	55498	G0010	G0100	17	Gillnet	K52-28MM	HERRING	10	10	1,900	1,900
1997	11-nov-97	SUND11	6161	55497	012470	012468	55498	G0010	G0100	17	Gillnet	K52-18,5MM	HERRING	1	1	0,066	0,066
1997	11-nov-97	SUND11	6164	55497	012470	012468	55498	G0010	G0100	17	Gillnet	K52-27MM	HERRING	8	8	1,200	1,200
1997	11-nov-97	SUND11	6166	55497	012470	012468	55498	G0010	G0100	17	Gillnet	K52-29MM	HERRING	13	13	2,300	2,300
1997	11-nov-97	SUND11	6163	55497	012470	012468	55498	G0010	G0100	17	Gillnet	K52-26MM	HERRING	8	8	1,400	1,400
1997	11-nov-97	SUND11	6162	55497	012470	012468	55498	G0010	G0100	17	Gillnet	K52-21MM	HERRING	3	3	0,360	0,360
1997	11-nov-97	SUND11	6165	55497	012470	012468	55498	G0010	G0100	17	Gillnet	K52-28MM	COD	1	1	1,800	1,800
1997	11-nov-97	SUND11	6171	55506	012459	012458	55508	G0200	G0315	16	Gillnet	K52-21MM	HERRING	1	1	0,202	0,202
1997	11-nov-97	SUND11	6175	55506	012459	012458	55508	G0200	G0315	16	Gillnet	K52-29MM	HERRING	3	3	0,566	0,566
1997	11-nov-97	SUND11	6173	55506	012459	012458	55508	G0200	G0315	16	Gillnet	K52-27MM	HERRING	2	2	0,427	0,427
1997	11-nov-97	SUND11	6174	55506	012459	012458	55508	G0200	G0315	16	Gillnet	K52-28MM	HERRING	2	2	0,386	0,386
1997	11-nov-97	SUND11	6172	55506	012459	012458	55508	G0200	G0315	16	Gillnet	K52-26MM	HERRING	8	8	1,367	1,367
1997	11-nov-97	SUND11	6185	55521	012384	012381	55522	G1635	G1755	16	Gillnet	K52-28MM	WHITING	1	1	0,108	0,108
1997	11-nov-97	SUND11	6184	55521	012384	012381	55522	G1635	G1755	16	Gillnet	K52-27MM	WHITING	1	1	0,165	0,165
1997	11-nov-97	SUND11	6185	55521	012384	012381	55522	G1635	G1755	16	Gillnet	K52-28MM	HERRING	2	2	0,308	0,308
1997	11-nov-97	SUND11	6182	55521	012384	012381	55522	G1635	G1755	16	Gillnet	K52-21MM	HERRING	17	17	1,500	1,500
1997	11-nov-97	SUND11	6181	55521	012384	012381	55522	G1635	G1755	16	Gillnet	K52-18,5MM	HERRING	2	2	0,142	0,142
1997	11-nov-97	SUND11	6183	55521	012384	012381	55522	G1635	G1755	16	Gillnet	K52-26MM	HERRING	3	3	0,380	0,380
1997	11-nov-97	SUND11	6341	55525	012384	012511	55413	G1635	G2320	11	Gillnet		HERRING	51	51	8,393	8,393
1997	11-nov-97	SUND11	6184	55521	012384	012381	55522	G1635	G1755	16	Gillnet	K52-27MM	HERRING	9	9	1,350	1,350

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1997	11-nov-97	SUND11	6186	55521	012384	012381	55522	G1635	G1755	16	Gillnet	K52-29MM	HERRING	6	6	1,000	1,000
1997	11-nov-97	SUND11	6184	55521	012384	012381	55522	G1635	G1755	16	Gillnet	K52-27MM	COD	2	2	1,300	1,300
1997	11-nov-97	SUND11	6191	55555	012459	012457	55556	G2045	G2255	15	Gillnet	K52-18,5MM	WHITING	1	1	0,085	0,085
1997	11-nov-97	SUND11	6196	55555	012459	012457	55556	G2045	G2255	15	Gillnet	K52-29MM	HERRING	21	21	3,800	3,800
1997	11-nov-97	SUND11	6193	55555	012459	012457	55556	G2045	G2255	15	Gillnet	K52-26MM	HERRING	121	106	17,450	17,450
1997	11-nov-97	SUND11	6195	55555	012459	012457	55556	G2045	G2255	15	Gillnet	K52-28MM	HERRING	21	21	3,800	3,800
1997	11-nov-97	SUND11	6191	55555	012459	012457	55556	G2045	G2255	15	Gillnet	K52-18,5MM	HERRING	3	3	0,400	0,400
1997	11-nov-97	SUND11	6194	55555	012459	012457	55556	G2045	G2255	15	Gillnet	K52-27MM	HERRING	118	118	19,400	19,400
1997	11-nov-97	SUND11	6192	55555	012459	012457	55556	G2045	G2255	15	Gillnet	K52-21MM	HERRING	36	36	4,200	4,200
1997	11-nov-97	SUND11	6192	55555	012459	012457	55556	G2045	G2255	15	Gillnet	K52-21MM	COD	1	1	0,065	0,065
1997	12-nov-97	SUND11	6206	55592	012430	012428	55594	G0005	G0115	16	Gillnet	K52-29MM	WHITING	2	2	0,306	0,306
1997	12-nov-97	SUND11	6205	55592	012430	012428	55594	G0005	G0115	16	Gillnet	K52-28MM	WHITING	2	2	0,646	0,646
1997	12-nov-97	SUND11	6202	55592	012430	012428	55594	G0005	G0115	16	Gillnet	K52-21MM	WHITING	2	2	0,090	0,090
1997	12-nov-97	SUND11	6203	55592	012430	012428	55594	G0005	G0115	16	Gillnet	K52-26MM	HERRING	23	23	2,500	2,500
1997	12-nov-97	SUND11	6204	55592	012430	012428	55594	G0005	G0115	16	Gillnet	K52-27MM	HERRING	29	29	4,400	4,400
1997	12-nov-97	SUND11	6201	55592	012430	012428	55594	G0005	G0115	16	Gillnet	K52-18,5MM	HERRING	29	29	2,100	2,100
1997	12-nov-97	SUND11	6205	55592	012430	012428	55594	G0005	G0115	16	Gillnet	K52-28MM	HERRING	27	12	2,050	2,050
1997	12-nov-97	SUND11	6202	55592	012430	012428	55594	G0005	G0115	16	Gillnet	K52-21MM	HERRING	68	68	6,600	6,600
1997	12-nov-97	SUND11	6206	55592	012430	012428	55594	G0005	G0115	16	Gillnet	K52-29MM	HERRING	26	26	4,600	4,600
1997	12-nov-97	SUND11	6207	55592	012430	012428	55594	G0005	G0115	16	Gillnet	K52-55MM	COD	1	1	0,962	0,962
1997	12-nov-97	SUND11	6214	55594	012361	012361	55596	G0215	G0335	15	Gillnet	K52-27MM	WHITING	2	2	0,247	0,247
1997	12-nov-97	SUND11	6213	55594	012361	012361	55596	G0215	G0335	15	Gillnet	K52-26MM	WHITING	2	2	0,243	0,243
1997	12-nov-97	SUND11	6215	55594	012361	012361	55596	G0215	G0335	15	Gillnet	K52-28MM	HERRING	8	8	1,300	1,300
1997	12-nov-97	SUND11	6211	55594	012361	012361	55596	G0215	G0335	15	Gillnet	K52-18,5MM	HERRING	30	30	1,900	1,900
1997	12-nov-97	SUND11	6212	55594	012361	012361	55596	G0215	G0335	15	Gillnet	K52-21MM	HERRING	64	64	5,800	5,800
1997	12-nov-97	SUND11	6214	55594	012361	012361	55596	G0215	G0335	15	Gillnet	K52-27MM	HERRING	22	22	3,100	3,100
1997	12-nov-97	SUND11	6216	55594	012361	012361	55596	G0215	G0335	15	Gillnet	K52-29MM	HERRING	23	23	3,650	3,650
1997	12-nov-97	SUND11	6213	55594	012361	012361	55596	G0215	G0335	15	Gillnet	K52-26MM	HERRING	21	21	3,000	3,000
1997	12-nov-97	SUND11	6215	55594	012361	012361	55596	G0215	G0335	15	Gillnet	K52-28MM	COD	1	1	0,107	0,107
1997	12-nov-97	SUND11	6221	55567	012362	012360	55569	G1800	G1905	16	Gillnet	K52-18,5MM	HERRING	7	7	0,460	0,460
1997	12-nov-97	SUND11	6226	55567	012362	012360	55569	G1800	G1905	16	Gillnet	K52-29MM	HERRING	31	31	5,400	5,400
1997	12-nov-97	SUND11	6222	55567	012362	012360	55569	G1800	G1905	16	Gillnet	K52-21MM	HERRING	7	7	0,550	0,550

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1997	12-nov-97	SUND11	6225	55567	012362	012360	55569	G1800	G1905	16	Gillnet	K52-28MM	HERRING	12	12	2,000	2,000
1997	12-nov-97	SUND11	6223	55567	012362	012360	55569	G1800	G1905	16	Gillnet	K52-26MM	HERRING	5	5	0,700	0,700
1997	12-nov-97	SUND11	6224	55567	012362	012360	55569	G1800	G1905	16	Gillnet	K52-27MM	HERRING	33	33	5,200	5,200
1997	12-nov-97	SUND11	6227	55567	012362	012360	55569	G1800	G1905	16	Gillnet	K52-55MM	COD	2	2	2,400	2,400
1997	12-nov-97	SUND11	6232	55538	012363	012363	55539	G2005	G2245	14	Gillnet	K52-21MM	HERRING	17	17	1,550	1,550
1997	12-nov-97	SUND11	6234	55538	012363	012363	55539	G2005	G2245	14	Gillnet	K52-27MM	HERRING	9	9	1,600	1,600
1997	12-nov-97	SUND11	6231	55538	012363	012363	55539	G2005	G2245	14	Gillnet	K52-18,5MM	HERRING	4	4	0,312	0,312
1997	12-nov-97	SUND11	6233	55538	012363	012363	55539	G2005	G2245	14	Gillnet	K52-26MM	HERRING	3	3	0,335	0,335
1997	12-nov-97	SUND11	6244	55535	012413	012413	55537	G2330	G0040	18	Gillnet	K52-27MM	WHITING	2	2	0,220	0,220
1997	12-nov-97	SUND11	6246	55535	012413	012413	55537	G2330	G0040	18	Gillnet	K52-29MM	WHITING	1	1	0,120	0,120
1997	12-nov-97	SUND11	6242	55535	012413	012413	55537	G2330	G0040	18	Gillnet	K52-21MM	WHITING	1	1	0,088	0,088
1997	12-nov-97	SUND11	6242	55535	012413	012413	55537	G2330	G0040	18	Gillnet	K52-21MM	HERRING	5	5	0,385	0,385
1997	12-nov-97	SUND11	6245	55535	012413	012413	55537	G2330	G0040	18	Gillnet	K52-28MM	HERRING	6	6	0,850	0,850
1997	12-nov-97	SUND11	6246	55535	012413	012413	55537	G2330	G0040	18	Gillnet	K52-29MM	HERRING	7	7	1,275	1,275
1997	12-nov-97	SUND11	6241	55535	012413	012413	55537	G2330	G0040	18	Gillnet	K52-18,5MM	HERRING	2	2	0,090	0,090
1997	12-nov-97	SUND11	6243	55535	012413	012413	55537	G2330	G0040	18	Gillnet	K52-26MM	HERRING	6	6	0,850	0,850
1997	12-nov-97	SUND11	6244	55535	012413	012413	55537	G2330	G0040	18	Gillnet	K52-27MM	HERRING	12	12	1,900	1,900
1997	13-nov-97	SUND11	6256	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-29MM	HERRING	29	29	5,225	5,225
1997	13-nov-97	SUND11	6255	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-28MM	HERRING	19	19	3,150	3,150
1997	13-nov-97	SUND11	6251	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-18,5MM	HERRING	7	7	0,520	0,520
1997	13-nov-97	SUND11	6252	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-21MM	HERRING	8	8	0,760	0,760
1997	13-nov-97	SUND11	6254	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-27MM	HERRING	30	30	4,525	4,525
1997	13-nov-97	SUND11	6253	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-26MM	HERRING	14	14	2,100	2,100
1997	13-nov-97	SUND11	6257	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-34MM	COD	1	1	0,300	0,300
1997	13-nov-97	SUND11	6255	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-28MM	COD	2	2	0,260	0,260
1997	13-nov-97	SUND11	6254	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-27MM	COD	3	3	3,875	3,875
1997	13-nov-97	SUND11	6252	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-21MM	COD	1	1	0,082	0,082
1997	13-nov-97	SUND11	6253	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-26MM	COD	2	2	1,185	1,185
1997	13-nov-97	SUND11	6256	55496	012376	012375	55497	G0155	G0315	11	Gillnet	K52-29MM	COD	3	3	0,575	0,575
1997	13-nov-97	SUND11	6264	55433	012545	012548	55431	G1915	G2045	16	Gillnet	K52-28MM	HERRING	38	38	7,100	7,100
1997	13-nov-97	SUND11	6267	55433	012545	012548	55431	G1915	G2045	16	Gillnet	K52-55MM	HERRING	2	2	0,350	0,350
1997	13-nov-97	SUND11	6266	55433	012545	012548	55431	G1915	G2045	16	Gillnet	K52-34MM	HERRING	3	3	0,680	0,680

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1997	13-nov-97	SUND11	6265	55433	012545	012548	55431	G1915	G2045	16	Gillnet	K52-29MM	HERRING	75	75	14,900	14,900
1997	13-nov-97	SUND11	6262	55433	012545	012548	55431	G1915	G2045	16	Gillnet	K52-26MM	HERRING	10	10	1,650	1,650
1997	13-nov-97	SUND11	6261	55433	012545	012548	55431	G1915	G2045	16	Gillnet	K52-21MM	HERRING	1	1	0,060	0,060
1997	13-nov-97	SUND11	6263	55433	012545	012548	55431	G1915	G2045	16	Gillnet	K52-27MM	HERRING	39	39	6,900	6,900
1997	13-nov-97	SUND11	6264	55433	012545	012548	55431	G1915	G2045	16	Gillnet	K52-28MM	COD	1	1	1,700	1,700
1997	13-nov-97	SUND11	6267	55433	012545	012548	55431	G1915	G2045	16	Gillnet	K52-55MM	COD	1	1	1,600	1,600
1997	13-nov-97	SUND11	6274	55420	012565	012566	55418	G2145	G0000	16	Gillnet	K52-34MM	HERRING	1	1	0,229	0,229
1997	13-nov-97	SUND11	6272	55420	012565	012566	55418	G2145	G0000	16	Gillnet	K52-27MM	HERRING	4	4	0,600	0,600
1997	13-nov-97	SUND11	6271	55420	012565	012566	55418	G2145	G0000	16	Gillnet	K52-26MM	HERRING	3	3	0,560	0,560
1997	13-nov-97	SUND11	6273	55420	012565	012566	55418	G2145	G0000	16	Gillnet	K52-29MM	HERRING	1	1	0,142	0,142
1997	14-nov-97	SUND11	6282	55470	012385	012385	55472	G0200	G0340	7	Gillnet	K52-21MM	HERRING	21	21	2,200	2,200
1997	14-nov-97	SUND11	6284	55470	012385	012385	55472	G0200	G0340	7	Gillnet	K52-27MM	HERRING	3	3	0,440	0,440
1997	14-nov-97	SUND11	6283	55470	012385	012385	55472	G0200	G0340	7	Gillnet	K52-26MM	HERRING	17	17	2,450	2,450
1997	14-nov-97	SUND11	6285	55470	012385	012385	55472	G0200	G0340	7	Gillnet	K52-28MM	HERRING	14	14	2,400	2,400
1997	14-nov-97	SUND11	6281	55470	012385	012385	55472	G0200	G0340	7	Gillnet	K52-18,5MM	HERRING	2	2	0,185	0,185
1997	14-nov-97	SUND11	6286	55470	012385	012385	55472	G0200	G0340	7	Gillnet	K52-29MM	HERRING	24	24	4,200	4,200
1997	14-nov-97	SUND11	6286	55470	012385	012385	55472	G0200	G0340	7	Gillnet	K52-29MM	COD	2	2	0,325	0,325
1997	14-nov-97	SUND11	6291	55396	012594	012595	55398	G1950	G2130	13	Gillnet	K52-18,5MM	HERRING	2	2	0,130	0,130
1997	14-nov-97	SUND11	6293	55396	012594	012595	55398	G1950	G2130	13	Gillnet	K52-26MM	HERRING	13	13	2,000	2,000
1997	14-nov-97	SUND11	6294	55396	012594	012595	55398	G1950	G2130	13	Gillnet	K52-27MM	HERRING	7	7	1,050	1,050
1997	14-nov-97	SUND11	6296	55396	012594	012595	55398	G1950	G2130	13	Gillnet	K52-29MM	HERRING	53	53	9,950	9,950
1997	14-nov-97	SUND11	6292	55396	012594	012595	55398	G1950	G2130	13	Gillnet	K52-21MM	HERRING	9	9	1,050	1,050
1997	14-nov-97	SUND11	6295	55396	012594	012595	55398	G1950	G2130	13	Gillnet	K52-28MM	HERRING	6	6	1,100	1,100
1997	14-nov-97	SUND11	6293	55396	012594	012595	55398	G1950	G2130	13	Gillnet	K52-26MM	COD	1	1	0,390	0,390
1997	14-nov-97	SUND11	6294	55396	012594	012595	55398	G1950	G2130	13	Gillnet	K52-27MM	COD	1	1	1,750	1,750
1997	14-nov-97	SUND11	6302	55370	012567	012569	55371	G2230	G2305	15	Gillnet	K52-27MM	HERRING	13	13	2,100	2,100
1997	14-nov-97	SUND11	6305	55370	012567	012569	55371	G2230	G2305	15	Gillnet	K52-34MM	HERRING	1	1	0,260	0,260
1997	14-nov-97	SUND11	6301	55370	012567	012569	55371	G2230	G2305	15	Gillnet	K52-21MM	HERRING	4	4	0,400	0,400
1997	14-nov-97	SUND11	6303	55370	012567	012569	55371	G2230	G2305	15	Gillnet	K52-28MM	HERRING	22	22	4,200	4,200
1997	14-nov-97	SUND11	6304	55370	012567	012569	55371	G2230	G2305	15	Gillnet	K52-29MM	HERRING	27	27	5,200	5,200
1997	15-nov-97	SUND11	6313	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-26MM	SPRAT	1	1	0,017	0,017
1997	15-nov-97	SUND11	6314	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-27MM	WHITING	1	1	0,050	0,050

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1997	15-nov-97	SUND11	6311	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-18,5MM	WHITING	1	1	0,070	0,070
1997	15-nov-97	SUND11	6316	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-29MM	WHITING	1	1	0,174	0,174
1997	15-nov-97	SUND11	6311	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-18,5MM	HERRING	71	253	6,800	24,200
1997	15-nov-97	SUND11	6313	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-26MM	HERRING	87	136	13,200	20,700
1997	15-nov-97	SUND11	6314	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-27MM	HERRING	105	105	16,700	16,700
1997	15-nov-97	SUND11	6312	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-21MM	HERRING	94	188	10,700	21,400
1997	15-nov-97	SUND11	6317	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-34MM	HERRING	6	6	1,000	1,000
1997	15-nov-97	SUND11	6316	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-29MM	HERRING	78	202	14,000	36,200
1997	15-nov-97	SUND11	6315	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-28MM	HERRING	49	218	9,000	40,000
1997	15-nov-97	SUND11	6316	55470	012527	012530	55472	G0030	G0200	17	Gillnet	K52-29MM	COD	1	1	1,000	1,000
1997	15-nov-97	SUND11	6322	55446	012373	012373	55448	G1910	G2140	7	Gillnet	K52-21MM	WHITING	1	1	0,050	0,050
1997	15-nov-97	SUND11	6324	55446	012373	012373	55448	G1910	G2140	7	Gillnet	K52-27MM	WHITING	1	1	0,350	0,350
1997	15-nov-97	SUND11	6322	55446	012373	012373	55448	G1910	G2140	7	Gillnet	K52-21MM	HERRING	7	7	0,900	0,900
1997	15-nov-97	SUND11	6321	55446	012373	012373	55448	G1910	G2140	7	Gillnet	K52-18,5MM	HERRING	3	3	0,200	0,200
1997	15-nov-97	SUND11	6326	55446	012373	012373	55448	G1910	G2140	7	Gillnet	K52-29MM	HERRING	6	6	1,200	1,200
1997	15-nov-97	SUND11	6325	55446	012373	012373	55448	G1910	G2140	7	Gillnet	K52-28MM	HERRING	4	4	0,650	0,650
1997	15-nov-97	SUND11	6324	55446	012373	012373	55448	G1910	G2140	7	Gillnet	K52-27MM	HERRING	10	10	1,800	1,800
1997	15-nov-97	SUND11	6323	55446	012373	012373	55448	G1910	G2140	7	Gillnet	K52-26MM	HERRING	30	30	4,800	4,800
1997	15-nov-97	SUND11	6334	55413	012511	012511	55415	G2320	G0040	13	Gillnet	K52-27MM	WHITING	1	1	0,185	0,185
1997	15-nov-97	SUND11	6331	55413	012511	012511	55415	G2320	G0040	13	Gillnet	K52-18,5MM	WHITING	1	1	0,130	0,130
1997	15-nov-97	SUND11	6333	55413	012511	012511	55415	G2320	G0040	13	Gillnet	K52-26MM	WHITING	1	1	0,100	0,100
1997	15-nov-97	SUND11	6335	55413	012511	012511	55415	G2320	G0040	13	Gillnet	K52-28MM	HERRING	37	37	6,900	6,900
1997	15-nov-97	SUND11	6331	55413	012511	012511	55415	G2320	G0040	13	Gillnet	K52-18,5MM	HERRING	15	15	1,500	1,500
1997	15-nov-97	SUND11	6332	55413	012511	012511	55415	G2320	G0040	13	Gillnet	K52-21MM	HERRING	15	15	2,000	2,000
1997	15-nov-97	SUND11	6336	55413	012511	012511	55415	G2320	G0040	13	Gillnet	K52-29MM	HERRING	43	43	7,900	7,900
1997	15-nov-97	SUND11	6334	55413	012511	012511	55415	G2320	G0040	13	Gillnet	K52-27MM	HERRING	55	55	9,400	9,400
1997	15-nov-97	SUND11	6333	55413	012511	012511	55415	G2320	G0040	13	Gillnet	K52-26MM	HERRING	38	38	6,300	6,300
1997	15-nov-97	SUND11	6334	55413	012511	012511	55415	G2320	G0040	13	Gillnet	K52-27MM	COD	1	1	0,125	0,125
1997	15-nov-97	SUND11	6332	55413	012511	012511	55415	G2320	G0040	13	Gillnet	K52-21MM	COD	1	1	2,000	2,000
1998	27-jan-98	ARGO01	47	55475	012526	00000	000000	G0718	G0748		Trawl		SPRAT	16762	33524	118,900	237,800
1998	27-jan-98	ARGO01	47	55475	012526	00000	000000	G0718	G0748		Trawl		WHITING	74	148	5,540	11,080
1998	27-jan-98	ARGO01	47	55475	012526	00000	000000	G0718	G0748		Trawl		HERRING	6507	13014	1036,500	2073,000

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1998	27-jan-98	ARGO01	47	55475	012526	00000	000000	G0718	G0748		Trawl		COD	2427	4854	1684,500	3369,000
1998	27-jan-98	ARGO01	48	55560	012418	00000	000000	G0959	G1029		Trawl		SPRAT	18566	37132	305,200	610,400
1998	27-jan-98	ARGO01	48	55560	012418	00000	000000	G0959	G1029		Trawl		WHITING	481	962	111,600	223,200
1998	27-jan-98	ARGO01	48	55560	012418	00000	000000	G0959	G1029		Trawl		HERRING	27209	54418	1651,400	3302,800
1998	27-jan-98	ARGO01	48	55560	012418	00000	000000	G0959	G1029		Trawl		COD	3157	6314	2134,100	4268,200
1998	27-jan-98	ARGO01	50	56127	012261	00000	000000	G1458	G1528		Trawl		WHITING	143	286	10,900	21,800
1998	27-jan-98	ARGO01	50	56127	012261	00000	000000	G1458	G1528		Trawl		COD	118	236	33,200	66,400
1998	30-mar-98	SUND03	102	55391	012563	012563	55393	G2300	G0015	16	Gillnet	K52-27MM	HERRING	1	1	0,170	0,170
1998	30-mar-98	SUND03	101	55391	012563	012563	55393	G2300	G0015	16	Gillnet	K52-26MM	HERRING	2	2	0,310	0,310
1998	30-mar-98	SUND03	103	55391	012563	012563	55393	G2300	G0015	16	Gillnet	K52-34MM	HERRING	1	1	0,200	0,200
1998	30-mar-98	SUND03	102	55391	012563	012563	55393	G2300	G0015	16	Gillnet	K52-27MM	COD	1	1	0,150	0,150
1998	31-mar-98	SUND03	206	55370	012559	012560	55372	G0100	G0200	16	Gillnet	K52-34MM	WHITING	1	1	0,400	0,400
1998	31-mar-98	SUND03	203	55370	012559	012560	55372	G0100	G0200	16	Gillnet	K52-27MM	WHITING	2	2	0,400	0,400
1998	31-mar-98	SUND03	202	55370	012559	012560	55372	G0100	G0200	16	Gillnet	K52-21MM	HERRING	5	5	0,450	0,450
1998	31-mar-98	SUND03	205	55370	012559	012560	55372	G0100	G0200	16	Gillnet	K52-29MM	HERRING	2	2	0,300	0,300
1998	31-mar-98	SUND03	204	55370	012559	012560	55372	G0100	G0200	16	Gillnet	K52-28MM	HERRING	2	2	0,300	0,300
1998	31-mar-98	SUND03	201	55370	012559	012560	55372	G0100	G0200	16	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100
1998	31-mar-98	SUND03	201	55370	012559	012560	55372	G0100	G0200	16	Gillnet	K52-18,5MM	COD	5	5	0,300	0,300
1998	31-mar-98	SUND03	202	55370	012559	012560	55372	G0100	G0200	16	Gillnet	K52-21MM	COD	1	1	0,050	0,050
1998	31-mar-98	SUND03	304	55456	012515	012515	55454	G1815	G1915	16	Gillnet	K52-29MM	HERRING	1	1	0,200	0,200
1998	31-mar-98	SUND03	301	55456	012515	012515	55454	G1815	G1915	16	Gillnet	K52-21MM	HERRING	3	3	0,250	0,250
1998	31-mar-98	SUND03	303	55456	012515	012515	55454	G1815	G1915	16	Gillnet	K52-27MM	HERRING	2	2	0,300	0,300
1998	31-mar-98	SUND03	302	55456	012515	012515	55454	G1815	G1915	16	Gillnet	K52-26MM	HERRING	2	2	0,300	0,300
1998	31-mar-98	SUND03	303	55456	012515	012515	55454	G1815	G1915	16	Gillnet	K52-27MM	COD	1	1	0,100	0,100
1998	31-mar-98	SUND03	401	55477	012485	012485	55476	G2003	G2108	18	Gillnet	K52-18,5MM	HERRING	1	1	0,050	0,050
1998	31-mar-98	SUND03	403	55477	012485	012485	55476	G2003	G2108	18	Gillnet	K52-26MM	HERRING	6	6	1,000	1,000
1998	31-mar-98	SUND03	402	55477	012485	012485	55476	G2003	G2108	18	Gillnet	K52-21MM	HERRING	2	2	0,100	0,100
1998	31-mar-98	SUND03	404	55477	012485	012485	55476	G2003	G2108	18	Gillnet	K52-29MM	HERRING	7	7	1,200	1,200
1998	31-mar-98	SUND03	601	55540	012436	012438	55538	G2330	G0155	16	Gillnet	K52-28MM	HERRING	1	1	0,180	0,180
1998	01-apr-98	SUND03	702	55560	012458	012459	55562	G0235	G0435	16	Gillnet	K52-26MM	HERRING	2	2	0,400	0,400
1998	01-apr-98	SUND03	701	55560	012458	012459	55562	G0235	G0435	16	Gillnet	K52-21MM	HERRING	3	3	0,400	0,400
1998	01-apr-98	SUND03	703	55560	012458	012459	55562	G0235	G0435	16	Gillnet	K52-27MM	HERRING	1	1	0,200	0,200

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1998	01-apr-98	SUND03	703	55560	012458	012459	55562	G0235	G0435	16	Gillnet	K52-27MM	COD	1	1	1,100	1,100
1998	01-apr-98	SUND03	801	55563	012358	012356	55566	G1940	G2045	15	Gillnet	K52-21MM	HERRING	2	2	0,250	0,250
1998	01-apr-98	SUND03	802	55563	012358	012356	55566	G1940	G2045	15	Gillnet	K52-26MM	HERRING	2	2	0,300	0,300
1998	01-apr-98	SUND03	801	55563	012358	012356	55566	G1940	G2045	15	Gillnet	K52-21MM	COD	1	1	0,060	0,060
1998	01-apr-98	SUND03	902	55539	012407	012406	55441	G2140	G0100	17	Gillnet	K52-26MM	HERRING	9	9	1,300	1,300
1998	01-apr-98	SUND03	903	55539	012407	012406	55441	G2140	G0100	17	Gillnet	K52-27MM	HERRING	9	9	1,400	1,400
1998	01-apr-98	SUND03	901	55539	012407	012406	55441	G2140	G0100	17	Gillnet	K52-18,5MM	HERRING	2	2	0,100	0,100
1998	01-apr-98	SUND03	904	55539	012407	012406	55441	G2140	G0100	17	Gillnet	K52-29MM	HERRING	5	5	0,900	0,900
1998	02-apr-98	SUND03	1006	55556	012405	012403	55558	G0200	G0500	25	Gillnet	K52-29MM	WHITING	3	3	0,500	0,500
1998	02-apr-98	SUND03	1005	55556	012405	012403	55558	G0200	G0500	25	Gillnet	K52-28MM	HERRING	1	1	0,200	0,200
1998	02-apr-98	SUND03	1002	55556	012405	012403	55558	G0200	G0500	25	Gillnet	K52-21MM	HERRING	5	5	0,400	0,400
1998	02-apr-98	SUND03	1001	55556	012405	012403	55558	G0200	G0500	25	Gillnet	K52-18,5MM	HERRING	5	5	0,300	0,300
1998	02-apr-98	SUND03	1004	55556	012405	012403	55558	G0200	G0500	25	Gillnet	K52-27MM	HERRING	4	4	0,700	0,700
1998	02-apr-98	SUND03	1006	55556	012405	012403	55558	G0200	G0500	25	Gillnet	K52-29MM	HERRING	11	11	1,900	1,900
1998	02-apr-98	SUND03	1003	55556	012405	012403	55558	G0200	G0500	25	Gillnet	K52-26MM	HERRING	3	3	0,400	0,400
1998	02-apr-98	SUND03	1005	55556	012405	012403	55558	G0200	G0500	25	Gillnet	K52-28MM	COD	1	1	0,100	0,100
1998	02-apr-98	SUND03	1001	55556	012405	012403	55558	G0200	G0500	25	Gillnet	K52-18,5MM	COD	1	1	0,050	0,050
1998	05-apr-98	SUND03	1101	56001	012362	012365	56003	G1815	G1900	16	Gillnet	K52-26MM	HERRING	3	3	0,300	0,300
1998	05-apr-98	SUND03	1201	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-18,5MM	SPRAT	2	2	0,040	0,040
1998	05-apr-98	SUND03	1207	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-34MM	SPRAT	1	1	0,015	0,015
1998	05-apr-98	SUND03	1205	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-28MM	WHITING	1	1	0,120	0,120
1998	05-apr-98	SUND03	1208	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-55MM	DAB	2	2	0,240	0,240
1998	05-apr-98	SUND03	1206	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-29MM	HERRING	16	16	2,950	2,950
1998	05-apr-98	SUND03	1203	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-26MM	HERRING	26	26	4,200	4,200
1998	05-apr-98	SUND03	1207	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-34MM	HERRING	11	11	2,000	2,000
1998	05-apr-98	SUND03	1204	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-27MM	HERRING	14	14	2,200	2,200
1998	05-apr-98	SUND03	1201	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-18,5MM	HERRING	14	14	1,100	1,100
1998	05-apr-98	SUND03	1205	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-28MM	HERRING	24	24	4,450	4,450
1998	05-apr-98	SUND03	1202	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-21MM	HERRING	19	19	1,880	1,880
1998	05-apr-98	SUND03	1207	55592	012430	012427	55593	G1945	G2055	16	Gillnet	K52-34MM	COD	1	1	1,020	1,020
1998	05-apr-98	SUND03	1302	55597	012366	012361	55596	G2200	G2330	16	Gillnet	K52-26MM	HERRING	2	2	0,300	0,300
1998	05-apr-98	SUND03	1301	55597	012366	012361	55596	G2200	G2330	16	Gillnet	K52-21MM	HERRING	1	1	0,090	0,090

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1998	05-apr-98	SUND03	1303	55597	012366	012361	55596	G2200	G2330	16	Gillnet	K52-29MM	COD	1	1	0,100	0,100
1998	06-apr-98	SUND03	1505	55503	012460	012460	55505	G1920	G2120	18	Gillnet	K52-29MM	WHITING	1	1	0,420	0,420
1998	06-apr-98	SUND03	1504	55503	012460	012460	55505	G1920	G2120	18	Gillnet	K52-27MM	HERRING	4	4	0,750	0,750
1998	06-apr-98	SUND03	1503	55503	012460	012460	55505	G1920	G2100	18	Gillnet	K52-26MM	HERRING	4	4	0,800	0,800
1998	06-apr-98	SUND03	1502	55503	012460	012460	55505	G1920	G2100	18	Gillnet	K52-21MM	HERRING	2	2	0,300	0,300
1998	06-apr-98	SUND03	1506	55503	012460	012460	55505	G1920	G2120	18	Gillnet	K52-28MM	HERRING	5	5	0,920	0,920
1998	06-apr-98	SUND03	1505	55503	012460	012460	55505	G1920	G2120	18	Gillnet	K52-29MM	HERRING	7	7	1,340	1,340
1998	06-apr-98	SUND03	1506	55503	012460	012460	55505	G1920	G2120	18	Gillnet	K52-28MM	COD	2	2	0,340	0,340
1998	06-apr-98	SUND03	1505	55503	012460	012460	55505	G1920	G2120	18	Gillnet	K52-29MM	COD	1	1	0,140	0,140
1998	06-apr-98	SUND03	1501	55503	012460	012460	55505	G1920	G2120	18	Gillnet	K52-18,5MM	COD	1	1	0,080	0,080
1998	06-apr-98	SUND03	1604	55483	012504	012507	55482	G2020	G2150	18	Gillnet	K52-27MM	HERRING	3	3	0,580	0,580
1998	06-apr-98	SUND03	1603	55483	012504	012507	55482	G2020	G2150	18	Gillnet	K52-26MM	HERRING	10	10	1,500	1,500
1998	06-apr-98	SUND03	1602	55483	012504	012507	55482	G2020	G2150	18	Gillnet	K52-21MM	HERRING	18	18	2,140	2,140
1998	06-apr-98	SUND03	1605	55483	012504	012507	55482	G2020	G2150	18	Gillnet	K52-28MM	HERRING	1	1	0,200	0,200
1998	06-apr-98	SUND03	1606	55483	012504	012507	55482	G2020	G2150	18	Gillnet	K52-29MM	HERRING	3	3	0,600	0,600
1998	06-apr-98	SUND03	1601	55483	012504	012507	55482	G2020	G2150	18	Gillnet	K52-18,5MM	HERRING	5	5	0,300	0,300
1998	06-apr-98	SUND03	1601	55483	012504	012507	55482	G2020	G2150	18	Gillnet	K52-18,5MM	COD	1	1	1,000	1,000
1998	06-apr-98	SUND03	1702	55487	012386	012389	55488	G2330	G0215	10	Gillnet	K52-21MM	HERRING	2	2	0,200	0,200
1998	06-apr-98	SUND03	1701	55487	012386	012389	55488	G2330	G0215	10	Gillnet	K52-18,5MM	HERRING	2	2	0,180	0,180
1998	06-apr-98	SUND03	1704	55487	012386	012389	55488	G2330	G0215	10	Gillnet	K52-29MM	COD	2	2	0,320	0,320
1998	06-apr-98	SUND03	1703	55487	012386	012389	55488	G2330	G0215	10	Gillnet	K52-28MM	COD	1	1	0,100	0,100
1998	06-apr-98	SUND03	1702	55487	012386	012389	55488	G2330	G0215	10	Gillnet	K52-21MM	COD	1	1	0,080	0,080
1998	07-apr-98	SUND03	1801	55469	012403	012402	55467	G1805	G1905	11	Gillnet	K52-26MM	HERRING	7	7	1,020	1,020
1998	07-apr-98	SUND03	1902	55445	012527	012523	55446	G2040	G2140	19	Gillnet	K52-21MM	HERRING	4	4	0,440	0,440
1998	07-apr-98	SUND03	1905	55445	012527	012523	55446	G2040	G2140	19	Gillnet	K52-28MM	HERRING	7	7	1,280	1,280
1998	07-apr-98	SUND03	1904	55445	012527	012523	55446	G2040	G2140	19	Gillnet	K52-27MM	HERRING	2	2	0,300	0,300
1998	07-apr-98	SUND03	1901	55445	012527	012523	55446	G2040	G2140	19	Gillnet	K52-18,5MM	HERRING	1	1	0,120	0,120
1998	07-apr-98	SUND03	1903	55445	012527	012523	55446	G2040	G2140	19	Gillnet	K52-26MM	HERRING	3	3	0,420	0,420
1998	07-apr-98	SUND03	1905	55445	012527	012523	55446	G2040	G2140	19	Gillnet	K52-28MM	COD	1	1	2,100	2,100
1998	07-apr-98	SUND03	2001	55442	012372	012369	55400	G2315	G0140	7	Gillnet	K52-18,5MM	HERRING	1	1	0,080	0,080
1998	07-apr-98	SUND03	2002	55442	012372	012369	55400	G2315	G0140	7	Gillnet	K52-21MM	HERRING	6	6	0,420	0,420
1998	07-apr-98	SUND03	2003	55442	012372	012369	55400	G2315	G0140	7	Gillnet	K52-29MM	HERRING	1	1	0,140	0,140

Year	Date	Survey	Sta-tion	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Mesh size	Fish Species	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1998	07-apr-98	SUND03	2001	55442	012372	012369	55400	G2315	G0140	7	Gillnet	K52-18,5MM	COD	1	1	0,030	0,030
1998	18-maj-98	SUND05	6903	55458	012443	012441	55459	G2145	G2345	16	Gillnet	K52-29MM	GARFISH	1	1	0,420	0,420
1998	18-maj-98	SUND05	6902	55458	012443	012441	55459	G2145	G2345	16	Gillnet	K52-21MM	WHITING	1	1	0,065	0,065
1998	18-maj-98	SUND05	6901	55458	012443	012441	55459	G2145	G2345	16	Gillnet	K52-18,5MM	COD	1	1	0,490	0,490
1998	19-maj-98	SUND05	7001	55394	012564	012561	55395	G0020	G0240	16	Gillnet	K52-21MM	HERRING	1	1	0,100	0,100
1998	19-maj-98	SUND05	7002	55394	012564	012561	55395	G0020	G0240	16	Gillnet	K52-26MM	COD	2	2	0,225	0,225
1998	19-maj-98	SUND05	7003	55394	012564	012561	55395	G0020	G0240	16	Gillnet	K52-28MM	COD	1	1	0,130	0,130
1998	19-maj-98	SUND05	7201	55567	012336	012338	55566	G2140	G2350	10	Gillnet	K52-UKENDT	GARFISH	0	0	9,000	9,000
1998	20-maj-98	SUND05	7302	55599	012364	012366	55598	G1845	G2030	17	Gillnet	K52-29MM	MACKEREL	1	1	0,700	0,700
1998	20-maj-98	SUND05	7301	55599	012364	012366	55598	G1845	G2030	17	Gillnet	K52-21MM	HERRING	4	4	0,375	0,375
1998	20-maj-98	SUND05	7301	55599	012364	012366	55598	G1845	G2030	17	Gillnet	K52-21MM	COD	2	2	0,130	0,130
1998	20-maj-98	SUND05	7402	55547	012394	012391	55547	G2140	G0015	16	Gillnet	K52-26MM	GARFISH	4	4	1,450	1,450
1998	20-maj-98	SUND05	7401	55547	012394	012391	55547	G2140	G0015	16	Gillnet	K52-18,5MM	HERRING	1	1	0,060	0,060
1998	20-maj-98	SUND05	7403	55547	012394	012391	55547	G2140	G0015	16	Gillnet	K52-55MM	COD	2	2	1,200	1,200
1998	21-maj-98	SUND05	7501	55519	012384	012385	55520	G0100	G0310	16	Gillnet	K52-18,5MM	HERRING	1	1	0,100	0,100
1998	21-maj-98	SUND05	7502	55519	012384	012385	55520	G0100	G0310	16	Gillnet	K52-21MM	HERRING	7	7	0,590	0,590

Appendiks 1, Table 3.

Fishery data from Gillnet sampling and Trawl sampling performed in the Sound during the period 1993-1998.

The data covers number and weight per species. Number and weight per length group and species can be found in the Eagle Database.

(Data from two trawl stations in the Sound from R/V Dana Survey 7 1995, July 1995).

Year	Date	Survey	Station	Start Lat.	Start Lon.	End Lat.	End Lon.	Start Time	End Time	Ave. Depth	Gear	Species	Species Category	Sample Number	Total Est. Number	Sample Weight	Total Est. Weight
1995	10-jul-95	7	6633	55580	012420	55567	012418	G1252	G1322	27.1	500	Plaice		11	22	16,900	33,800
1995	10-jul-95	7	6633	55580	012420	55567	012418	G1252	G1322	27.1	500	Lemon sole		19	38	8,175	16,350
1995	10-jul-95	7	6633	55580	012420	55567	012418	G1252	G1322	27.1	500	Lumpsucker		4	8	6,210	12,420
1995	10-jul-95	7	6633	55580	012420	55567	012418	G1252	G1322	27.1	500	Cod	STORE	383	766	905,555	1811,110
1995	10-jul-95	7	6633	55580	012420	55567	012418	G1252	G1322	27.1	500	Sprat		204	408	3,810	7,620
1995	10-jul-95	7	6633	55580	012420	55567	012418	G1252	G1322	27.1	500	Dab		1	2	0,175	0,350
1995	10-jul-95	7	6633	55580	012420	55567	012418	G1252	G1322	27.1	500	Whiting		1	2	0,160	0,320
1995	10-jul-95	7	6633	55580	012420	55567	012418	G1252	G1322	27.1	500	Cod	SMÅ	197	394	43,335	86,670
1995	10-jul-95	7	6633	55580	012420	55567	012418	G1252	G1322	27.1	500	Herring	STORE	390	3268	36,040	302,000
1995	10-jul-95	7	6633	55580	012420	55567	012418	G1252	G1322	27.1	500	Invertebrates		0	0	11,930	11,930
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	ORD		6	24	2,060	8,240
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	Turbot		4	16	2,025	8,100
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	Plaice		30	120	19,100	76,400
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	Flounder		4	16	2,730	10,920
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	Cod	STORE	28	112	42,000	168,000
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	Dab		45	180	3,975	15,900
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	Mackerel		2	8	1,820	7,280
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	Whiting		10	40	1,375	5,500
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	Cod	SMÅ	222	888	34,300	137,200
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	Sprat		237	31163	2,280	299,800
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	Herring		72	4419	0,655	40,200
1995	10-jul-95	7	6662	55479	012517	55473	012526	G1548	G1603	15.6	500	Invertebrates		0	0	19,200	19,200